

Investor science conference call: American Society of Clinical Oncology Genitourinary (ASCO GU) Cancers Symposium 2022

Conference call for investors and analysts



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Andy Barnett

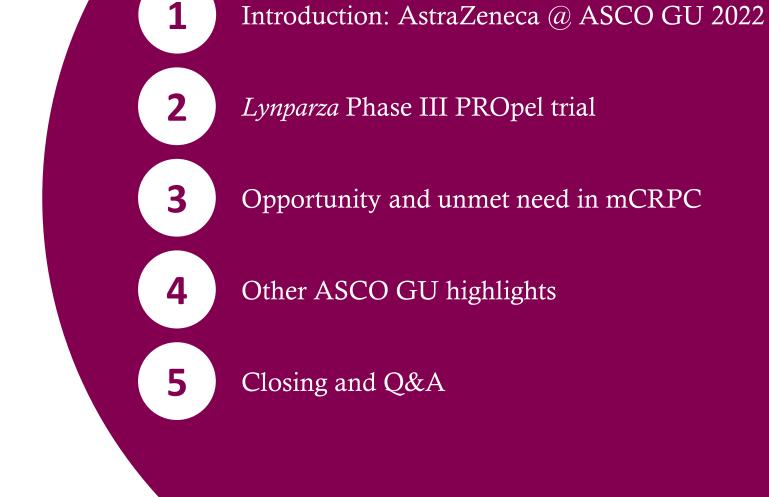
Global Franchise Head, GU and GYN Cancers, DDR and Established Oncology (for Q&A)



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Speakers

Agenda







Introduction

Susan Galbraith Executive Vice President,

Oncology R&D



Comprehensive portfolio to combat cancer

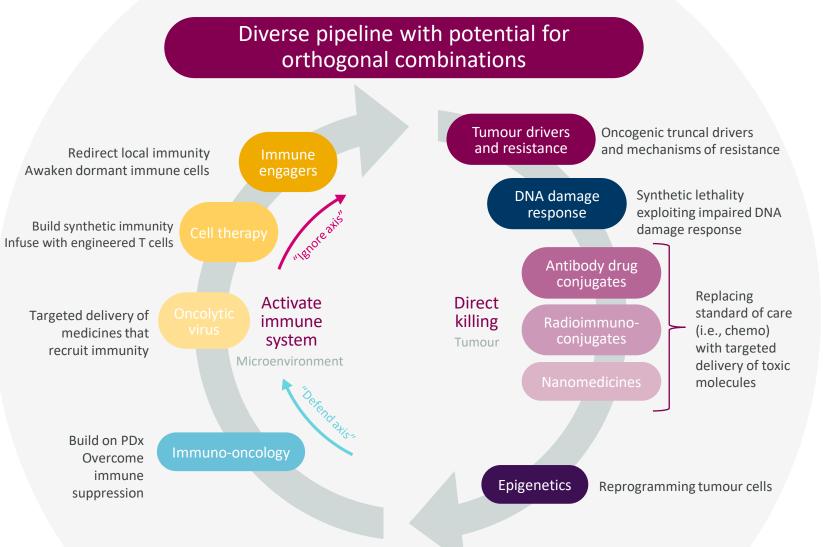


Simplify and the second second



TAGRISSO[®] osimertinib

CALQUENCE[®] (acalabrutinib) 100 mg capsules



ASCO GU 2022

ASCO[°] Genitourinary Cancers Symposium 19 abstracts with three oral presentations

- **Two** Oral presentations
- One Mini-oral presentation
- **16** Posters
- **19** Abstracts accepted

Data highlights

- Lynparza + abiraterone
 in 1st-line mCRPC
 PROpel Phase III trial
- Lynparza + Imfinzi
 in 1st-line urothelial carcinoma
 BAYOU Phase II trial
- Enhertu + nivolumab
 in HER2+ urothelial carcinoma
 U105 Phase Ib trial



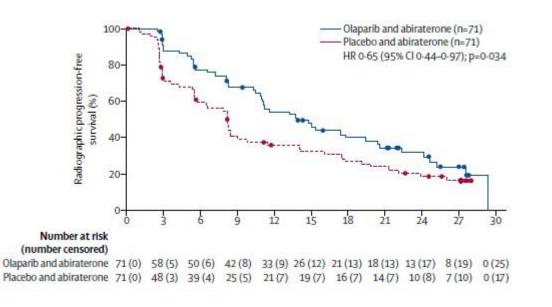
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Lynparza and abiraterone

Success in Study 08 paved the way for PROpel in 1st-line mCRPC

Study 08¹

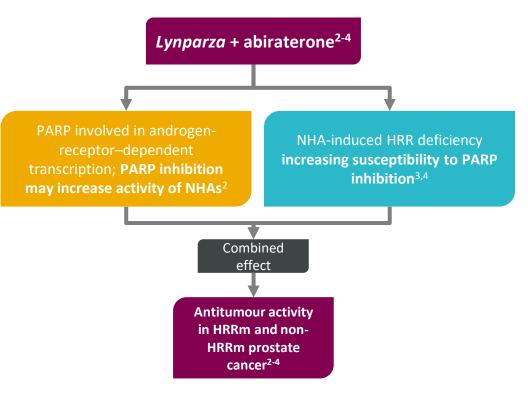
Phase II trial



35% risk reduction Significant rPFS benefit regardless of HRRm status

PARP-signaling and AR-signaling pathway interaction

may explain combined effect



g 1. Saad et al Lancet Oncol 2018; 19: 975–86 2. Schiewer MJ, et al. Cancer Discov. 2012;2:1134-1149 3. Polkinghorn WR, et al. Cancer Discov. 2013;3:1245-12534. Asim M, et al. Nat Commun. 2017;8(1):374.

rPFS = radiographic progression free survival; HRR = homologous recombination repair; HRRm = HRR gene mutation; PARP = poly adenosine diphosphate-ribose polymerase; AR = androgen receptor; NHA = new hormonal agents.



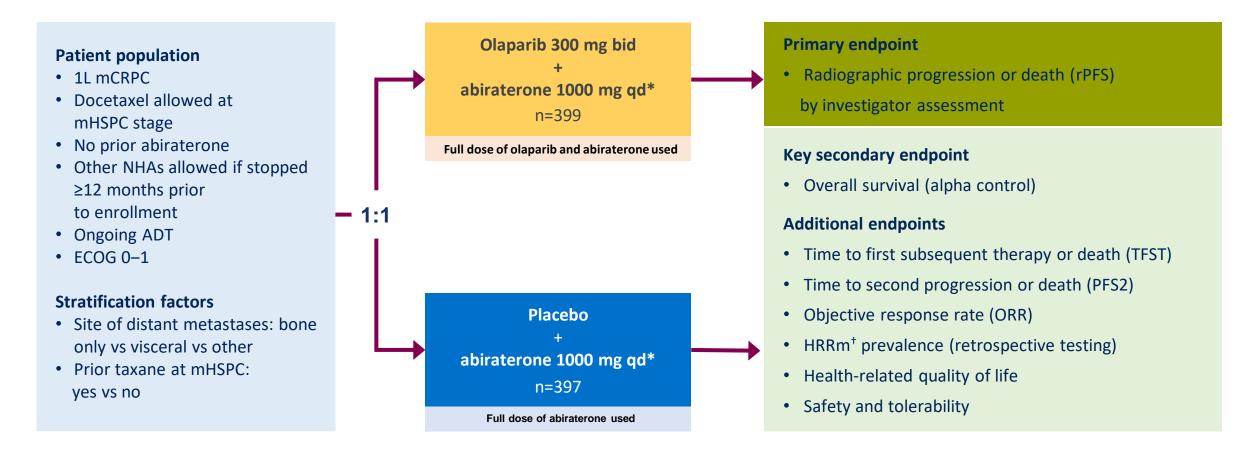
Lynparza PROpel

Dr Fred Saad

Principal Investigator, PROpel Phase III trial



PROpel A global randomised double-blind Phase III trial



First patient randomized: Nov 2018; Last patient randomized: Mar 2020; DCO1: July 30, 2021, for interim analysis of rPFS and OS.

Multiple testing procedure is used in this study: 1-sided alpha of 0.025 fully allocated to rPFS. If the rPFS result is statistically significant, OS to be tested in a hierarchical fashion with alpha passed on to OS. +Please access the Supplement at https://bit.ly/3r50ms0 for more details.

10 *In combination with prednisone or prednisolone 5 mg bid. ⁺HRRm, homologous recombination repair mutation, including 14 genes panel. ADT = androgen deprivation therapy; bid = twice daily; ECOG = Eastern Cooperative Oncology Group; mHSPC = metastatic hormone sensitive prostate cancer.

Baseline patient characteristics Well-balanced between treatment arms

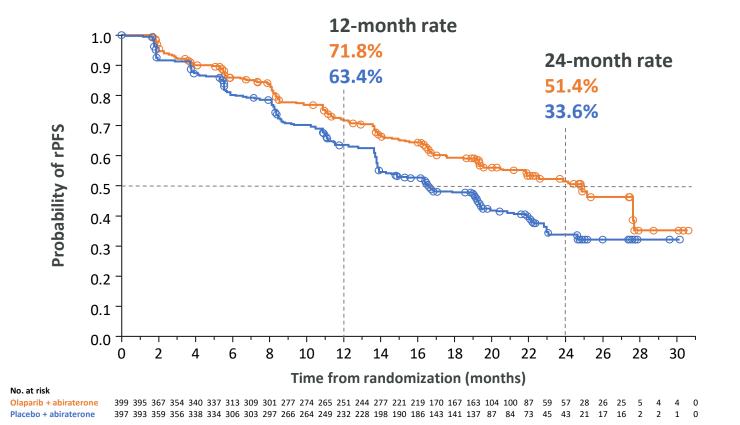
	Olaparib + abiraterone (n=399)	Placebo + abiraterone (n=397)
Median (range) age, years	69.0 (43–91)	70.0 (46–88)
ECOG performance status, n (%) 0 1	286 (71.7) 112 (28.1)	272 (68.5) 124 (31.2)
Symptomatic,* n (%)	103 (25.8)	80 (20.2)
Site of metastases, n (%) Bone Distant lymph nodes Locoregional lymph nodes Lung Liver	349 (87.5) 133 (33.3) 82 (20.6) 40 (10.0) 15 (3.8)	339 (85.4) 119 (30.0) 89 (22.4) 42 (10.6) 18 (4.5)
Docetaxel treatment at mHSPC stage, n (%)	90 (22.6)	89 (22.4)
Median PSA, ug/L (IQR)	17.90 (6.09–67.00)	16.81 (6.26–53.30)
HRRm status [†] HRRm Non-HRRm HRRm unknown	111 (27.8) 279 (69.9) 9 (2.3)	115 (29.0) 273 (68.8) 9 (2.3)

*Patients with symptomatic pain at baseline: BPI-SF item #3 score ≥4 and/or opiate use at baseline.

⁺The HRRm status of patients in PROpel was determined retrospectively using results from tumor tissue and plasma ctDNA HRRm tests. Patients were classified as HRRm if (one or more) HRR gene mutation was detected by either test; patients were classified as unknown HRRm if no valid HRR test result from either test was achieved. Please access the Supplement via the QR code at the end of this presentation for more details.

BPI-SF = Brief Pain Inventory - Short Form; ctDNA = circulating tumor DNA; IQR = interquartile range; PSA = prostate-specific antigen.

Primary endpoint: rPFS by investigator-assessment 34% risk reduction of progression or death with olaparib + abiraterone



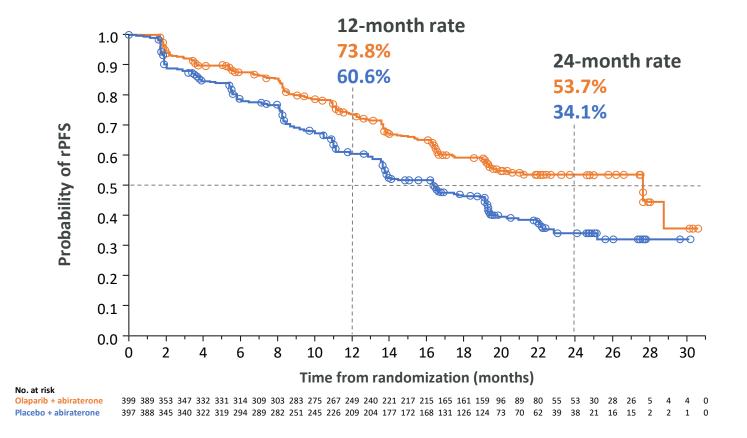
	Olaparib + abiraterone (n=399)	Placebo + abiraterone (n=397)			
Events, n (%)	168 (42.1)	226 (56.9)			
Median rPFS (months)	24.8	16.6			
HR (95% CI)	0.66 (0.54–0.81); <i>P</i> <0.0001				
	Pre-specified 2-sided alpha: 0.0324				

Median rPFS improvement of 8.2 months favors olaparib + abiraterone*

Events: 394; Maturity 49.5%

12 *In combination with prednisone or prednisolone CI = confidence interval; HR = hazard ratio.

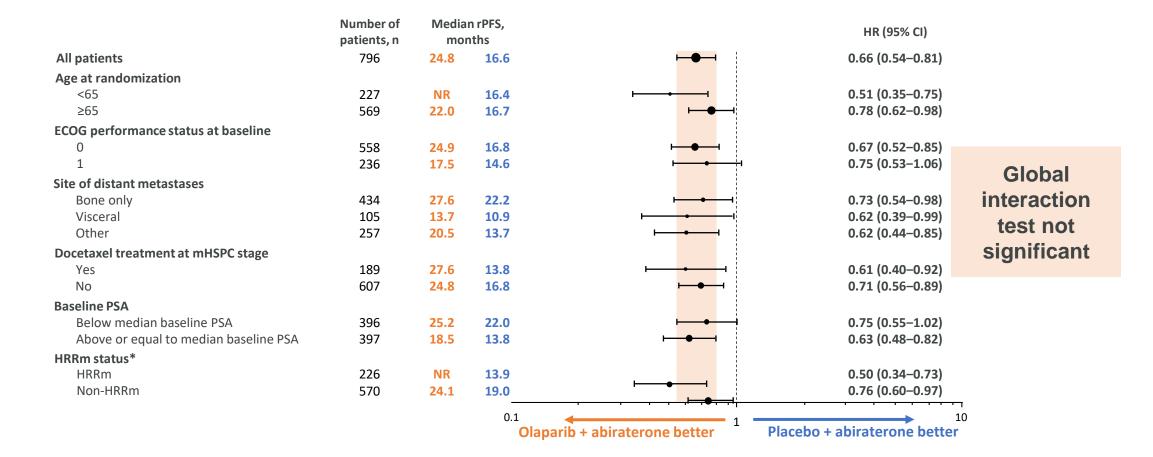
Secondary endpoint: rPFS by blinded independent central review* 39% risk reduction of progression or death, highly consistent with the primary analysis



	Olaparib + abiraterone (n=399)	Placebo + abiraterone (n=397)			
Events, n (%)	157 (39.3)	218 (54.9)			
Median rPFS (months)	27.6	16.4			
HR (95% CI)	0.61 (0.49–0.74) <i>P</i> <0.0001 ⁺				

Median rPFS improvement of 11.2 months favors olaparib + abiraterone[‡]

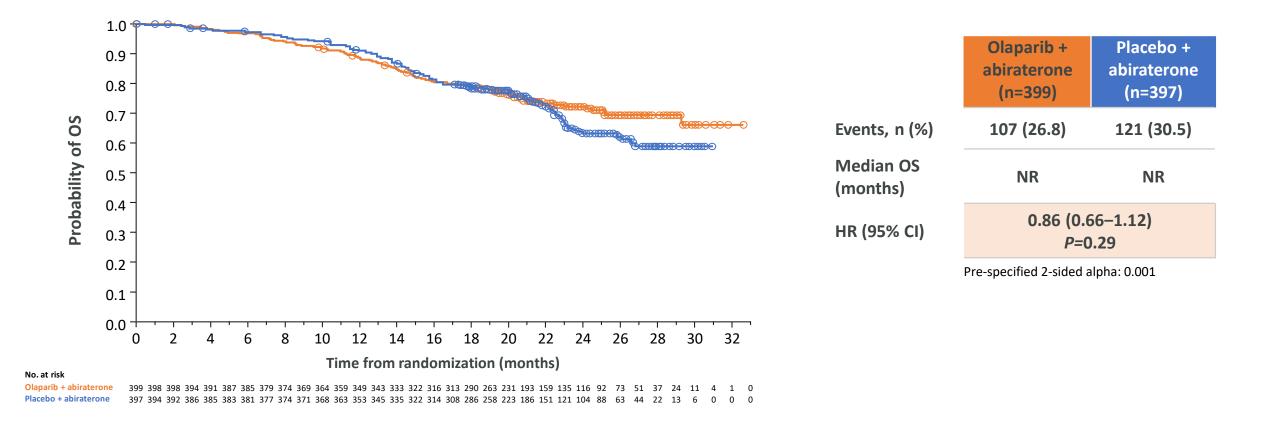
Subgroup analysis of rPFS rPFS benefit observed across all pre-specified subgroups



Global interaction test not significant at 10% level. *The HRRm status of patients in PROpel was determined retrospectively using results from tumor tissue and plasma ctDNA HRRm tests. Patients were classified as HRRm if (one or more) HRR gene mutation was detected by either test; patients were classified as non-HRRm patients if no HRR gene mutation was detected by either test; patients were classified as non-HRRm patients if no HRR gene mutation was detected by either test; patients were classified as non-HRRm patients if no HRR gene mutation was detected by either test; patients were classified as non-HRRm patients if no HRR gene mutation was detected by either test; patients were classified as unknown HRRm if no valid HRR test result from the patients is no HRRm patients in the patient is no HRRm patients. Plasma detected by either test; patients were classified as unknown HRRm if no valid HRR test result from the patients is no HRRm patients.

14 either test was achieved. 18 patients did not have a valid HRR testing result from either a tumor tissue or ctDNA test and were excluded from the subgroup analysis. This subgroup analysis is post hoc exploratory analysis. Please access the Supplement via the QR code at the end of this presentation for more details. NR = not reached.

Secondary endpoint: overall survival 28.6% maturity; trend towards improved OS with olaparib + abiraterone



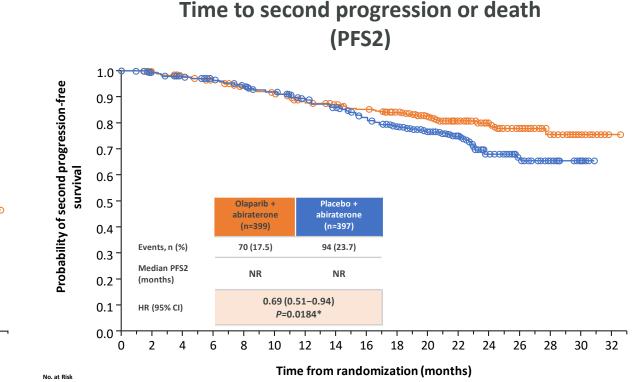
15 Eve

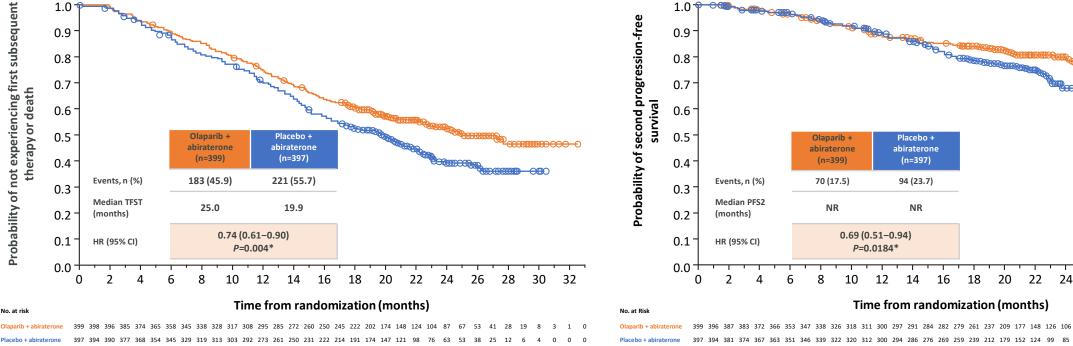
Secondary endpoints: TFST and PFS2 TFST and PFS2 results support longer-term benefit with olaparib + abiraterone

Time to first subsequent therapy or death (TFST)

Placebo +

Olaparib +





No at risk

1.0

0.9

0.8

0.7

0.6

Overall safety profile

A relatively small increase in discontinuations for olaparib vs placebo, discontinuation with abiraterone was similar between treatment arms

n (%)	Olaparib + abiraterone (n=399)	Placebo + abiraterone (n=397)
Any AE	387 (97.2)	376 (94.9)
Any AE CTCAE Grade ≥3	188 (47.2)	152 (38.4)
Death due to an AE	16 (4.0)	17 (4.3)
Any AE leading to:		
Dose interruption of olaparib/placebo	178 (44.7)	100 (25.3)
Dose reduction of olaparib/placebo	80 (20.1)	22 (5.6)
Discontinuation of olaparib/placebo	55 (13.8)	31 (7.8)
Discontinuation of abiraterone	34 (8.5)	35 (8.8)

AEs of special interest for olaparib

- No MDS/AML reported
- Incidence of new primary malignancies and pneumonitis were balanced between treatment arms

AE = adverse event; AML = acute myeloid leukemia; CTCAE = Common Terminology Criteria for Adverse Events v4.03; MDS = myelodysplastic syndrome.

Cardiac and thromboembolic adverse events

Cardiac failure and arterial thromboembolic events were balanced between the two arms

Numerically higher venous thromboembolic events were reported for olaparib + abiraterone Pulmonary embolism was the most commonly reported venous thromboembolic event Pulmonary embolism events were mostly incidental findings by CT scans and did not lead to discontinuation of olaparib or abiraterone

n (%)	Olaparib + abiraterone (n=399)	Placebo + abiraterone (n=397)
Cardiac failure SMQ	6 (1.5)	5 (1.3)
Embolic and thrombotic events, arterial SMQ	8 (2.0)	10 (2.5)
Embolic and thrombotic events, venous SMQ	29 (7.3)	13 (3.3)
Pulmonary embolism	26 (6.5)	7 (1.8)

Most common adverse events

AE profile was consistent with the known toxicity profiles for the individual drugs

		0	laparib + a	abiraterone (n=399)	Placeb	o + abira	terone (I	า=399)			
Any	97.2		47.2				38.	4			94.9	
Anemia*		46.0	ס	15.1		3.3	16.4					
Fatigue or asthenia			37.2		2.3	1.5	1	28.3				
Nausea				28.1	0.3	0.3	12.6					
Diarrhea				17.3	0.8	0.3 9.	.3					
Constipation				17.3		0.3	13.9					
Back pain				17.1	0.8	1.0	18.4					
Decreased appetite				14.6	1.0	5.8						
Vomiting				13.1	1.0	0.3 9.	1					
Arthralgia				12.8	3	0.5	17.7					_
Hypertension				12.6	3.5	3.3	16.4					Grade ≥3
Dizziness				10.	8	6.3						All grade Grade ≥3
Peripheral edema				10	.3	0.3 1	1.4					All grade
Urinary tract infection				10.3	3 2.0	1.0 7	′ .8					
	100	80	60	40 20	0	0	20	40	60	80	100	

Safety was assessed through the reporting of AEs according to the National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE v4.03) and laboratory assessments.

19 *Anemia category includes anemia, decreased hemoglobin level, decreased red-cell count, decreased hematocrit level, erythropenia, macrocytic anemia, normochromic anemia, normochromic normocytic anemia, and normocytic anemia.

Conclusions

Olaparib + abiraterone led to a significant and clinically meaningful improvement in rPFS (HR 0.66 [95% CI 0.54–0.81]) over placebo + abiraterone in 1L mCRPC Benefit observed led to a median rPFS beyond 2 years Benefit was observed irrespective of HRRm status

Secondary and exploratory endpoints support the treatment benefit of olaparib + abiraterone over placebo + abiraterone in the overall patient population

The safety profile of olaparib + abiraterone was **consistent with the safety profile for the individual drugs** and there was **no detriment to quality of life** allowing most patients to stay on therapy

The Phase III PROpel study is the first combination approach to deliver consistent clinical benefits for patients in the 1L mCRPC setting, irrespective of HRRm status



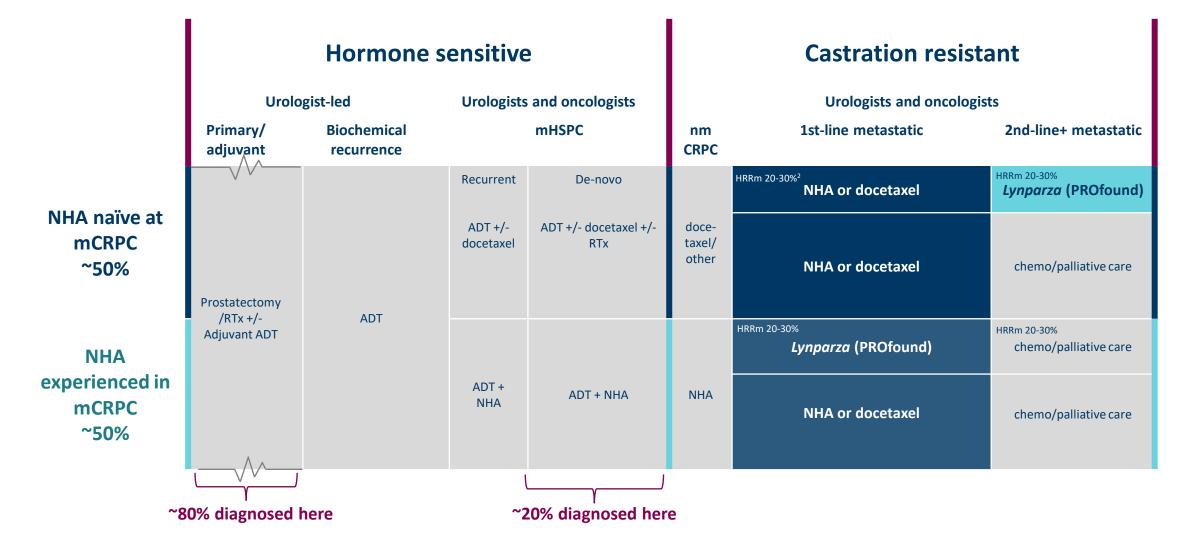
Opportunity and unmet need in mCRPC

Dave Fredrickson

Executive Vice President, Oncology Business Unit



Prostate is the second most common cancer in male patients mCRPC therapies are limited; mostly monotherapy, including in first line



22 Source: AstraZeneca estimates. Indicative populations. Not to scale 1. Rawla P. World J Oncol. 2019; 10(2):63-89. 2. Mateo, J, et al. New England Journal of Medicine, 2015, 373(18), pp.1697 - 1708.

ADT = androgen deprivation therapy; RTx = radiation therapy; nmCRPC = non-metastatic castration resistant prostate cancer

PROpel - unprecedented clinical benefit without compromising quality of life - a potential new SoC in mCRPC

Outcomes remain poor

in advanced prostate cancer

40%

of patients with prostate cancer will develop metastatic disease¹⁻³

30%

the 5-year survival rate for patients with metastatic disease⁴

3 years

median OS for mCRPC patients in the first-line setting $^{\rm 5\mathchar`9}$

50%

of patients receive only one line of active therapy in mCRPC¹⁰

PROpel

building on the success of PROfound

- Representative real-world population simple trial design
- All-comers ITT population
- Retrospective HRR testing via tissue and ctDNA testing¹¹
- Primary endpoint: radiographic progression free survival
- Key secondary endpoints: Overall survival, time to first subsequent therapy, time to second progression or death

- Clinically meaningful and consistent efficacy across subgroups
- Despite OS immaturity, strong secondary endpoint results provide confidence
- **Class-leading tolerability** full 300mg *Lynparza* dose in combination with abiraterone
- Quality of life maintained, allowing adoption of upfront combination therapy

8.2-month median rPFS benefit over abiraterone alone

1. Beltran H, Beer TM, Carducci MA, et al. *Eur Urol*. 2011;60(2):279-290. 2. Sciarra A, Salciccia S. *Eur Urol*. 2014;65(5):905-906. 3. Sartor O, de Bono JS. *N Engl J Med*. 2018;378(7):645-657. 4. Cancer of the Prostate - *Cancer Stat Facts. SEER*. Accessed November 6, 2019. 5. Kelly WK et al. *J Clin Oncol*. 2012;30:1534–40. 6. Quinn DI et al. *Lancet Oncol*. 2013;14:893–900. 7. Araujo JC et al. *Lancet Oncol*. 2013;14:1307–16. 8. Ryan CJ et al. *N Engl J Med*. 2013;368:138–48. 9. Beer TM et al. *N Engl J Med*. 2014;371:424–33. 10. Shore ND et al. *Adv Ther*. 2021;38:4520–40. 11. Tumour tissue and blood samples were collected at baseline for biomarker tests. HRRm status was determined using a tumour tissue test (FoundationOne®CDX) and/or a circulating tumour (ctDNA) based test (FoundationOne®Liquid CDx test).

OS = overall survival; ITT = intent-to-treat.

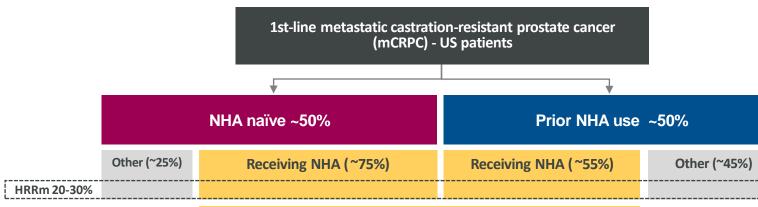
After almost a decade, the addition of *Lynparza* achieves a similar absolute rPFS improvement compared to the pivotal trial that established abiraterone as first-line SoC

COU-AA-302 ¹ (2012)					PROpel (2022)		
	control	abiraterone	Dif.	abi	<i>Lynparza</i> + abiraterone	Dif.	
Median rPFS	8.2m	16.4m	8.2m	16.6m	24.8m	8.2m	

PROpel median rPFS	abiraterone	<i>Lynparza</i> + abiraterone	HR
Investigator assessment	16.6m	24.8m	0.66 (0.54-0.81)
HRRm	13.9m	NR	0.50 (0.34-0.73)
Non-HRRm	19.0m	24.1m	0.76 (0.60-0.97)
BICR	16.4m	27.6m	0.61 (0.49-0.74)



PROpel: a new treatment approach in 1st-line mCRPC



Overall, ~65% of 1st-line mCRPC patients receive an NHA today



Lynparza and abiraterone demonstrates a clear clinical benefit vs. abiraterone alone in first line patients who are NHA naïve For NHA experienced patients, *Lynparza* and abiraterone offers **a well tolerated**, **chemo-free treatment option**



A clear option for NHA-naïve patients regardless of HRRm status

The first combination trial to demonstrate consistent clinical benefit in 1st-line mCRPC

Source: AstraZeneca estimates. 1. Pending health authority authorisation. The PROpel trial data is not currently approved in any jurisdiction.



Other ASCO GU highlights

Susan Galbraith

Executive Vice President, Oncology R&D



New advances in urothelial carcinoma Phase II data advancing understanding of this aggressive cancer

Imfinzi + Lynparza: Phase II BAYOU trial

Platinum-ineligible patients with mUC



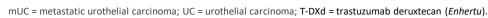
	D+O	D+PBO			
ITT population	n=78	n=76			
Median PFS, mo (95% CI)	4.2 (3.6–5.6)	3.5 (1.9–5.1)			
HR (95% CI)	0.94 (0.64–1.39)				
Log-rank p-value	0.789				
HRRm subset*	n=17	n=14			
Median PFS, mo (95% CI)	5.6 (1.9–8.1)	1.8 (1.7–2.2)			
HR (95% CI)	0.18 (0.06–0.47)				
Log-rank p-value	<0.001				

Data suggests a role for PARP inhibition in HRRm UC

Combination with nivolumab 100 % Change in Sum of Diameters from Baseline, 80 60 40 20 0 -20 -40 -60 -80 -10022 24 26 **Baseline** 15 19 21 23 25 Time from First Dose of Study Drug, months Cohort 3 HER2 2+/3+ (n = 30) (part 2: 5.4 mg/kg T-DXd and nivolumab 360 mg)

Enhertu: Phase II U105 trial

HER2+ UC included in DESTINY-PanTumor02





Closing and Q&A





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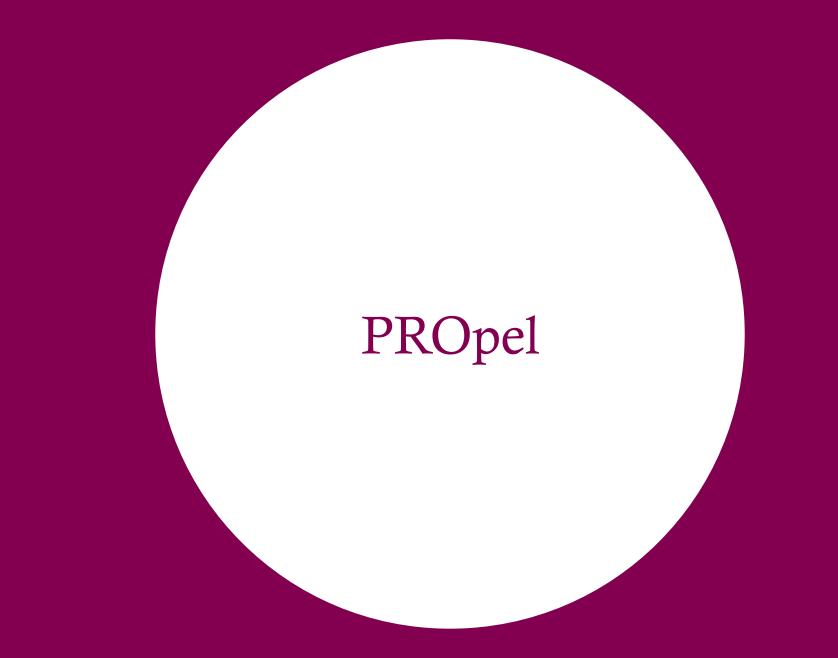
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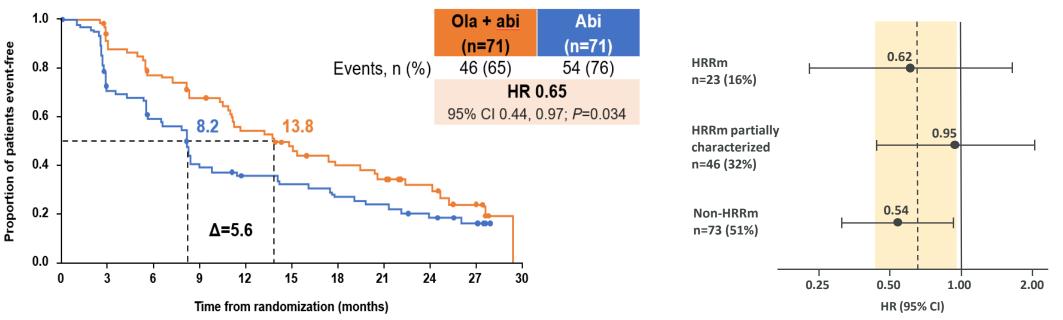


Appendix



Olaparib and abiraterone: A randomised Phase II trial

- Patients with mCRPC, unselected by HRRm status, with prior docetaxel treatment
- Randomized 1:1 to full dose of olaparib + abiraterone vs placebo + abiraterone
- Statistically significant improvement in rPFS with olaparib + abiraterone, irrespective of HRRm status¹



rPFS by HRRm subgroup^{2*}

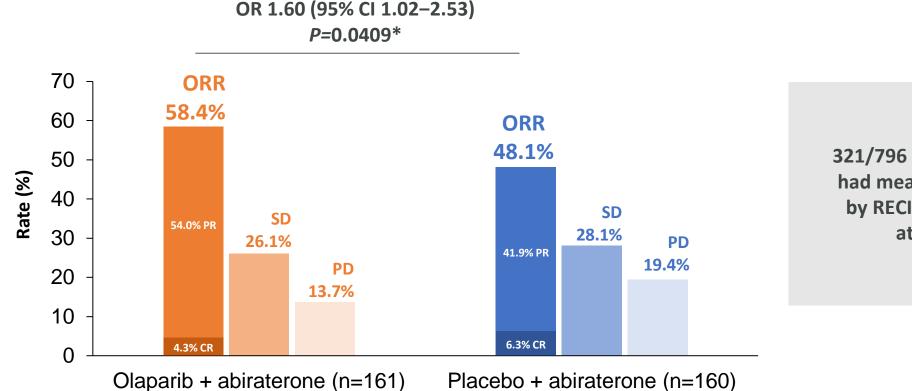
1. Clarke N et al. Lancet Oncol 2018;19:975-86.2. Carr TH et al. Cancers 2021;13:5830

Investigator-assessed rPFS¹

*Dashed line and shaded area show HR and 95% CI, respectively, for the intent to treat population.

Please access the Supplement at https://bit.ly/3r50ms0 for more details including the full citations and further details on the HRRm partially characterised subgroup.

ORR in patients with measurable disease 10% improvement in ORR with olaparib + abiraterone

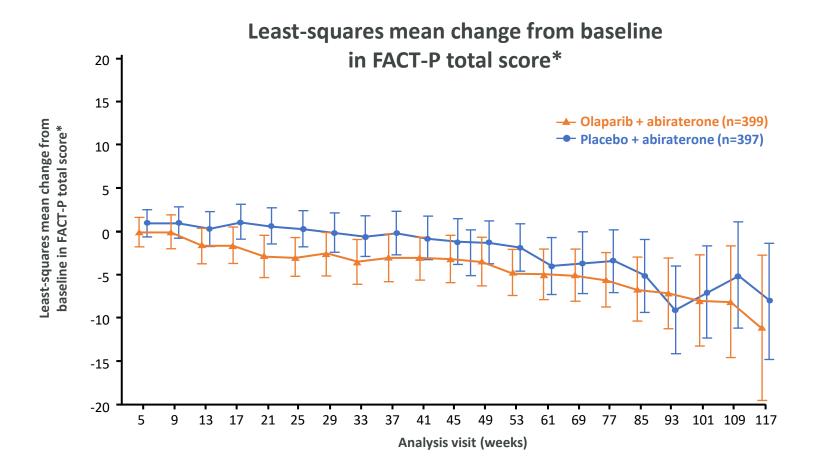


321/796 patients (40.3%) had measurable disease by RECIST v1.1 criteria at baseline

33 *Nominal

CR = complete response; OR = odds ratio; ORR = overall response rate; PD = progressive disease; PR = partial response; RECIST = Response Evaluation Criteria in Solid Tumors; SD = stable disease

FACT-P quality of life over time Quality of life comparable between treatment arms



*Plot includes 95% confidence limits. FACT-P total score change from baseline values can be a minimum of -156 and a maximum of 156. A clinically meaningful change in FACT-P total score is 1015,16



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