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JBN: GB 50323 DOP: November 2023







### LYNPARZA<sup>©</sup> (olaparib) tablets mCRPC indications



### LYNPARZA© (olaparib) tablets

Prostate cancer indications<sup>1</sup>

#### LYNPARZA tablets are indicated as monotherapy for:

The treatment of adult patients with metastatic castration-resistant prostate cancer (mCRPC) and BRCA1/2-mutations (germline and/or somatic) who have progressed following prior therapy that included a novel hormonal agent

LYNPARZA tablets are indicated in combination with abiraterone and prednisone or prednisolone for:

The treatment of adult patients with mCRPC in whom chemotherapy is not clinically indicated

Always refer to the Summary of Product Characteristics before prescribing to minimise the risks associated with the use of this medicines

mCRPC=metastatic castrate resistant prostate cancer.

1. LYNPARZA (olaparib). Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/9488/smpc (Accessed November 2023); 2. Final appraisal document: Olaparib for previously treated BRCA mutation-positive hormone-relapsed metastatic prostate cancer. April 2023. Available at: https://www.nice.org.uk/quidance/qid-ta11314/documents/final-appraisal-determination-document (Accessed November 2023).





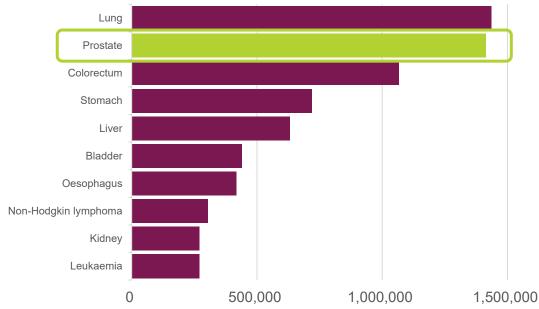


### Prostate cancer is the fifth leading cause of cancer-related deaths amongst males globally<sup>1</sup>

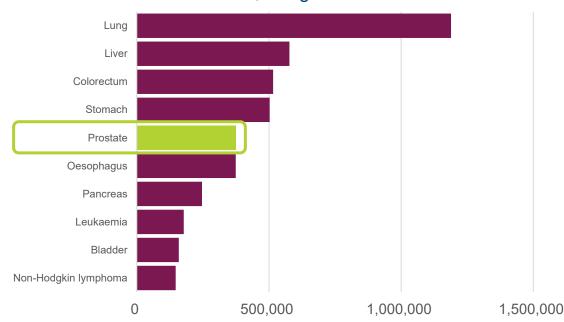


### In 2020, there were an estimated 1.4 million new cases and 375,000 deaths related to prostate cancer<sup>1</sup>





### Estimated number of **deaths** worldwide, males, all ages in 2020<sup>1</sup>



The number of patients predicted to die from prostate cancer is expected to **double** in the **next 20 years**<sup>2</sup>

Figures adapted from GLOBOCAN.1

1. Sung H, et al. CA Cancer J Clin. 2021;71:209-249; 2. Rawla P. World J Oncol. 2019;10(2):63-89.







### The treatment of metastatic prostate cancer poses a significant challenge in the UK



Approximately one in three men with prostate cancer are diagnosed with metastatic disease in **Scotland**,\* though this is reduced to one in eight men in **London**<sup>†1</sup>

### Prostate cancer is a common and complex disease



Prostate cancer is the most common cancer in men in the UK, with over **52,000** cases diagnosed every year ‡2



Over **12,000** patients will die of prostate cancer per year ‡2



#### Metastatic prostate cancer is a considerable clinical challenge



Advanced prostate cancer is incurable, commonly progresses and is often fatal<sup>3,4</sup>



The 5-year survival for patients with metastatic disease is ~50% in the UK<sup>5</sup>



Patients with metastatic prostate cancer report low QoL due to exacerbated symptoms and adverse events from life-prolonging therapies<sup>6</sup>

<sup>1.</sup> Prostate Cancer UK. Available at: https://prostatecanceruk.org/about-us/news-and-views/2023/01/huge-north-south-divide-in-prostate-cancer-diagnoses (Accessed November 2023); 2. Prostate Cancer UK. Available at: https://prostatecanceruk.org/prostate-cancer (Accessed November 2023); 3. Sartor O, et al. N Engl J Med. 2018;378:645–657; 4. Prostate Cancer UK. Available at: https://prostatecanceruk.org/prostate-cancer uk.org/prostatecanceruk.org/prostate-cancer uk.org/prostatecanceruk.org/p



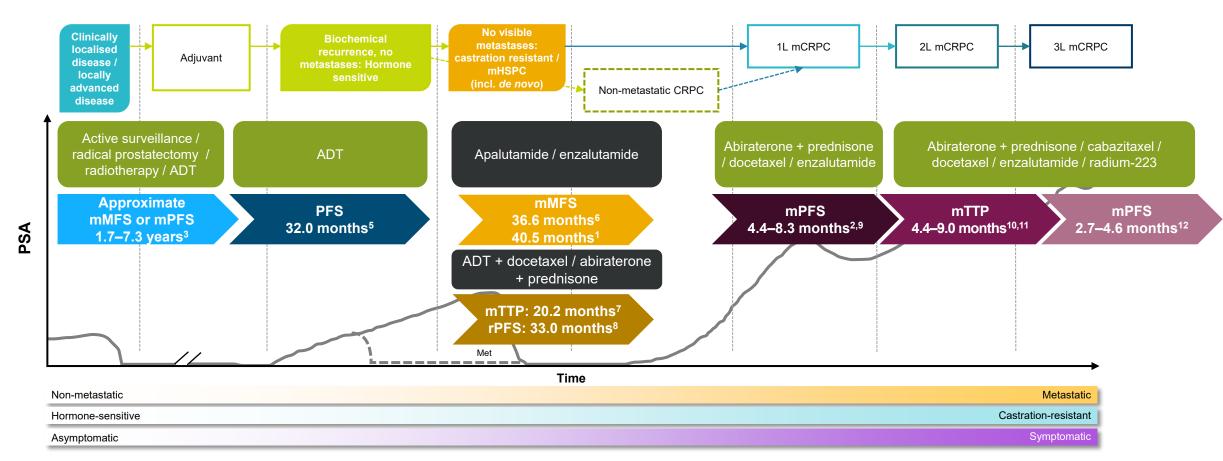




<sup>\*</sup>Data collected between 2014–2018. †Data collected between 2015–2019. ‡Data last updated in June 2022. QoL=quality of life.

### Despite advances in mCRPC treatment, clinical outcomes for patients remain poor<sup>1–4</sup>





1/2/3L=first/second/third-line; ADT=androgen deprivation therapy; (m)CRPC=(metastatic) castration-resistant prostate cancer; mHSPC=metastatic hormone-sensitive prostate cancer; mMFS=median metastases-free survival; (m)PFS=(median) progression-free survival; mTTP=median time-to-progression; PSA=prostate-specific antigen; rPFS=radiographic progression-free survival.

<sup>1.</sup> Śmith MR, et al. N Engl J Med. 2018;378:1408–1418; 2. Fang M, et al. Prostate Cancer. 2017;2017:8560827; 3. Barayan GA, et al. BJU Int. 2014;114:E99–E104; 4. Tourinho-Barbosa R, et al. Int Braz J Urol. 2018;44:14–21; 5. Carrie C, et al. Lancet Oncol. 2016;17:747–756; 6. Hussain M, et al. N Engl J Med. 2018; 378:2465–2474; 7. Sweeney CJ, et al. N Engl J Med. 2015;373:737–746; 8. Fizazi K, et al. N Engl J Med. 2017;37:352–360; 9. Oudard S, et al. J Clin Oncol. 2017;35:3189–3197; 10. Morris MJ, et al. J Clin Oncol. 2017;34:Abstract 5075; 11. Chowdhury S, et al. J Clin Oncol. 2017;35:Abstract 5028; 12. Caffo O, et al. Eur Urol. 2015;68:147–153.



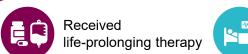




### Approximately one half of UK patients with mCRPC receive more than one line of therapy<sup>1</sup>





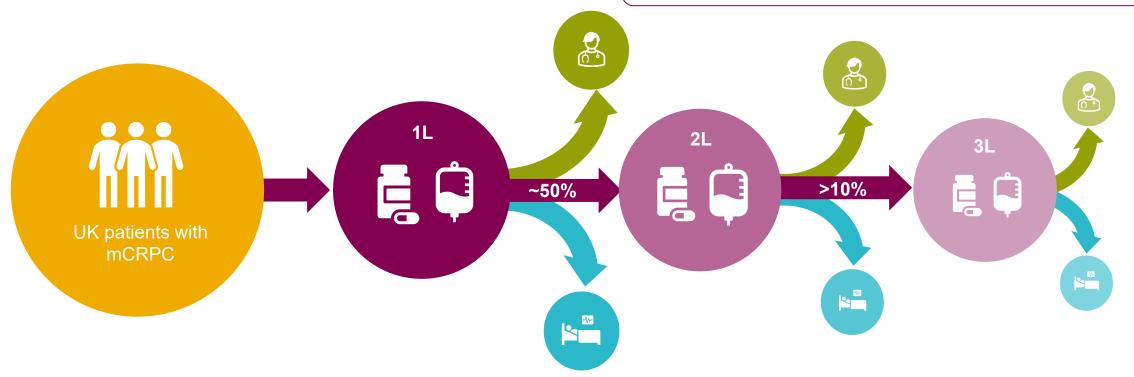




Died



Received other care



1/2/3L=first/second/third-line; mCRPC=metastatic castration-resistant prostate cancer.

1. Leith A, et al. *Adv Ther*. 2022;39:2236–2255.







### What considerations may impact treatment choice in 1L mCRPC?



### Treatment decision<sup>1–5</sup>

Patient-related factors<sup>1–4</sup>

Life expectancy

**Comorbidities** 

Concomitant medications

Performance status

Presence of symptoms

Social supports

Preferences and beliefs

Cancer-related factors<sup>1,3</sup>

Extent of metastatic disease

De novo vs. recurrent

Prior treatments

Molecular features

Clinician-related factors4

Experience with treatment options

Comfort with AE management

Interpretation of clinical data

Preferences and beliefs

Treatment-related factors<sup>1,2,5</sup>

Therapy availability

Schedule of treatments and monitoring

Cost

Expected efficacy

Expected toxicity

1L=first-line; AE=adverse event; mCRPC=metastatic castration-resistant prostate cancer.

<sup>1.</sup> Morgans AK, Beltran H. *J Clin Oncol*. 2022;40:818–824; 2. Anido-Herranz U, et al. *Clin Transl Oncol*. 2019;21:249–258; 3. LYNPARZA (olaparib). Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/9488/smpc (Accessed November 2023); 4. Glatzer M, et al. *Oncology*. 2020:98(6):370–378; 5. Turco F, et al. *Res Rep Urol*. 2022;14:339–350.







# LYNPARZA combination / monotherapy are the first approved PARPi therapy options for mCRPC in the UK<sup>1</sup>



- Patients are selected for LYNPARZA monotherapy using a tumour tissue test.<sup>2</sup> BRCA1/2 mutation status should be determined by an experienced laboratory using a validated test method<sup>1</sup>
- No genomic testing is required prior to using LYNPARZA in combination with abiraterone and prednisone or prednisolone for the treatment of patients with mCRPC<sup>1</sup>

#### MHRA indication<sup>1</sup>

LYNPARZA is indicated as monotherapy for the treatment of adult patients with mCRPC and **BRCA1/2 mutations** (germline and/or somatic) who have progressed following prior therapy that included a novel hormonal agent

LYNPARZA is indicated in combination with abiraterone and prednisone or prednisolone for the treatment of adult patients with mCRPC in whom chemotherapy is not clinically indicated

Biomarker	Sample type <sup>3</sup>		
Bioiliaikei	Tumour	Blood	
s <i>BRCA1/2</i> m	Χ		
g <i>BRCA1</i> /2m	Χ	X	

Since about half of *BRCA1/2* mutations are somatic, solely testing for germline BRCA mutations could miss 50% of the mutated population. It is vital to be aware of which test is most appropriate<sup>4</sup>

BRCA1/2m=BRCA1/2 mutation; EMC=Electronic Medicines Compendium; g=germline; mCRPC=metastatic castration-resistant prostate cancer; MHRA=Medicines and Healthcare products Regulatory Agency; s=somatic.

1. LYNPARZA (olaparib). Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/9488/smpc (Accessed November 2023); 2. Prostate Cancer UK. Olaparib. Available at: https://prostatecanceruk.org/prostate-information-and-support/treatments/olaparib (Accessed November 2023); 3. Be BRCA Aware. Available at: https://www.bebrcaware.com/what-is-brca/brca-testing-basics.html (Accessed November 2023; 4. Abida W, et al. *JCO Precis Oncol* 2017;2017:PO.17.00029.





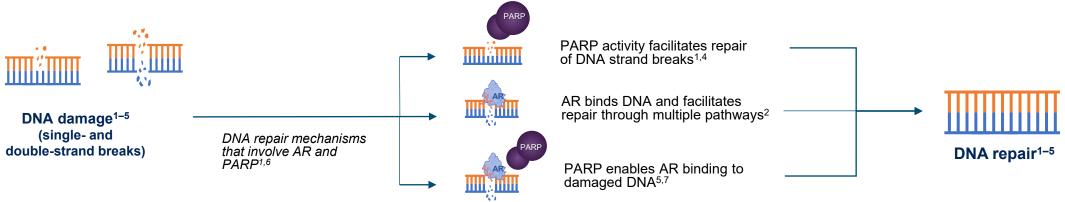


### The interaction between PARP- and AR-signalling may explain the combined effect of LYNPARZA + abiraterone<sup>1–7</sup>

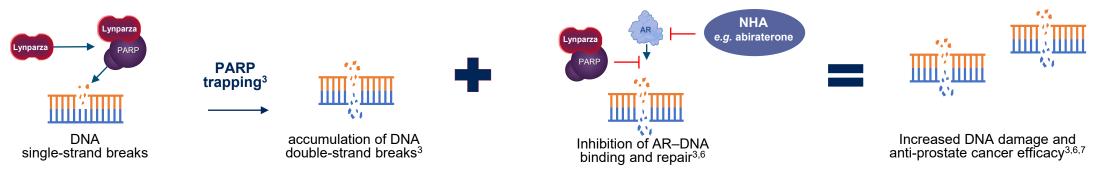


This is a hypothetical mechanism for the pharmacological rationale for the efficacy of the combination. Extrapolation of pre-clinical experimental evidence to clinical efficacy of the combination in patients cannot be made. The role of the addition of prednisolone or prednisone corticosteroid treatment to the pharmacological and genetic effects of the combination is unknown.

#### PARP and AR are important for DNA repair in prostate cancer<sup>1–6</sup>



### Inhibition of PARP and AR in combination results in more DNA damage<sup>2,3,6,7</sup>



AR=androgen receptor; NHA=novel hormonal agent.

1. Chaudhuri AR, Nussenzweig A. *Nat Rev Mol Cell Biol.* 2017;18:610–621; 2. Polkinghorn WR, et al. *Cancer Discov.* 2013;3:1245–1253; 3. Lord CJ, Ashworth A. *Science*. 2017;355:1152–1158; 4. Pommier Y, et al. *Sci Transl Med.* 2016;8:362ps17; 5. Schiewer MJ, et al. *Cancer Discov.* 2012;2:1134–1149; 6. Asim M, et al. *Nat Commun.* 2017;8:374; 7. Li L, et al. *Sci Signal.* 2017;10:eaam7479.







LYNPARZA cannot be combined with strong CYP3A4 inducers, such as enzalutamide, due to expected reduced exposure and hence reduced efficacy of LYNPARZA<sup>1-4</sup>





Hepatic cytochrome P450 enzymes CYP3A4 and CYP3A5 are predominantly responsible for the metabolic clearance of LYNPARZA\*1



Strong CYP3A4 inducers could reduce plasma levels of LYNPARZA, potentially affecting efficacy (e.g. co-administration of a strong CYP inducer, such as rifampicin, decreases the exposure to LYNPARZA)<sup>1</sup>



**Enzalutamide is a strong CYP3A4 inducer** and therefore expected to **reduce exposure of LYNPARZA** and hence cannot be co-administered with LYNPARZA<sup>1-4</sup>

<sup>1.</sup> Dirix L, et al. Clin Ther. 2016;38:2286–2299; 2. Gibbons JA, et al. Clin Pharmacokinet. 2015;54:1057–1069; 3. Xtandi (enzalutamide). EU Prescribing Information. Available at: https://www.ema.europa.eu/en/documents/product-information/xtandi-epar-product-information\_en.pdf (Accessed November 2023); 4. LYNPARZA (olaparib). Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/9488/smpc (Accessed November 2023).



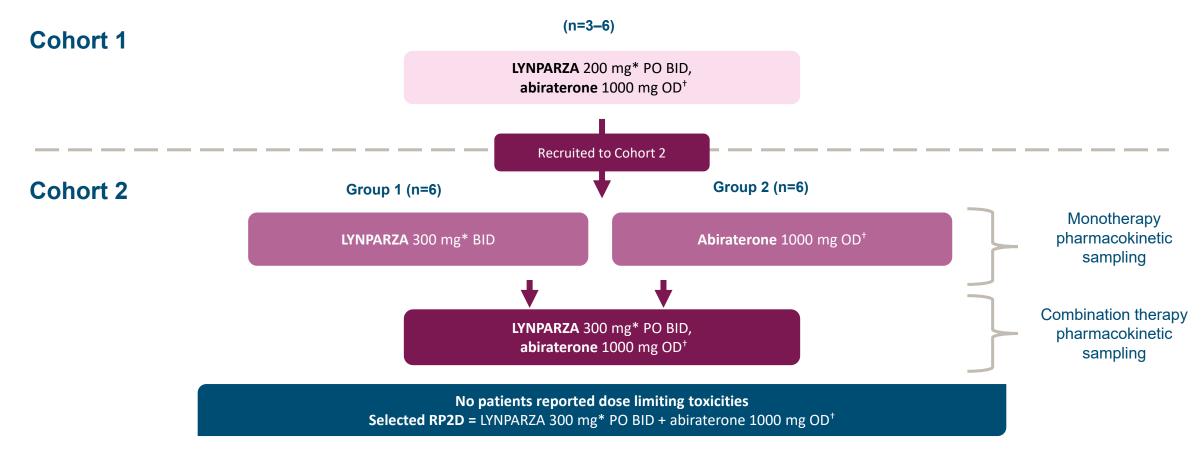




<sup>\*</sup>Hypothesis based on experimental models. CYP=cytochrome P450.

### The recommended Phase II dose of LYNPARZA was identified through the open-label safety run-in study of the randomised Phase II trial - Study 8





<sup>\*</sup>In tablet formulation. The recommended dose of Lynparza in combination with abiraterone and prednisone or prednisolone for prostate cancer is 300 mg (two 150 mg tablets) taken twice daily, equivalent to a total daily dose of 600 mg.<sup>2</sup>

<sup>1.</sup> Clarke NW, et al., Lancet Oncol. 2018; 19(7): 975–986 (suppl. appx.); 2. LYNPARZA (olaparib). Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/9488/smpc (Accessed November 20230.







<sup>†</sup>Plus prednisone or prednisolone 5 mg BID. If a further dose reduction is required, then reduction to 200 mg (two 100 mg tablets) twice daily (equivalent to a total daily dose of 400 mg) is recommended. BID=twice a day; RP2D=recommended Phase II dose; OD=once daily

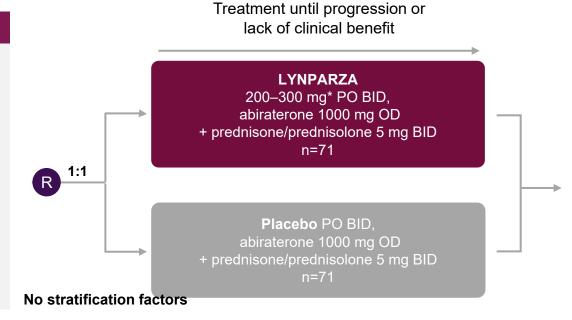
### Study 8 provided clinical evidence supporting the addition of abiraterone to LYNPARZA in mCRPC



Study 8 was a Phase II randomised trial assessing the combination of LYNPARZA + abiraterone vs. placebo + abiraterone in patients with mCRPC who had received docetaxel<sup>1</sup>

### Eligibility criteria

- Histologically or cytologically proven mCRPC
- Candidate for abiraterone therapy
- ECOG PS 0-2
- ≤2 prior lines of chemotherapy for metastatic disease
- Received docetaxel for treatment of mCRPC
- No prior treatment with second generation antihormonal drugs (including abiraterone or enzalutamide) or LYNPARZA



### **Trial endpoints**

#### **Primary endpoint**

rPFS (RECIST v1.1 and/or PCWG2)<sup>†</sup>

#### **Secondary endpoints**

- Proportion of patients with rOR,<sup>†</sup> DoR and malignant soft tissue OR (RECIST v1.1)
- PFS2
- TFST
- TSST
- 08
- Biomarker analysis (PSA/CTC)
- Safety and tolerability

#### **Exploratory analysis**

- rPFS by HRRm status by tumour and ctDNA<sup>‡</sup>
- HRQoL

\*In tablet formulation; 200 mg starting dose, 300 mg if well tolerated (<1 dose-limiting toxicity). The recommended dose of Lynparza in combination with abiraterone and prednisone or prednisolone for prostate cancer is 300 mg (two 150 mg tablets) taken twice daily, equivalent to a total daily dose of 600 mg.<sup>2</sup>

†Plus prednisone or prednisolone 5 mg BID. If a further dose reduction is required, then reduction to 200 mg (two 100 mg tablets) twice daily (equivalent to a total daily dose of 400 mg) is recommended. †Defined according to RECIST v1.1 (for soft tissue disease) and/or PCWG-2 criteria (for bone disease).

\*Loss-of-function mutations were assessed in 15 HRR genes: *ATM, BARD1, BRCA1, BRCA2, BRIP1, CDK12, CHEK1, CHEK2, FANCL, PALB2, RAD51B, RAD51C, RAD51D*, and *RAD54L*.
BID=twice daily; CTC=circulating tumour cell; ctDNA=circulating tumour DNA; ECOG=Eastern Cooperative Oncology Group; HRQoL=health related quality of life; HRRm=homologous recombination repair gene mutation; mCRPC=metastatic castrate resistant prostate cancer; OD=once daily; OS=overall survival; PARPi=poly (ADP-ribose) polymerase inhibitor; PO=orally; PFS2=time to second progression or death; PSA=prostate specific antigen; R=randomisation; RECIST=Repsonse Evaluation Criteria in Solid Tumors; (r)OR=radiographic objective response; rPFS=radiographic progression free survival; TFST=time to first subsequent therapy.

1. Clarke NW, et al. Lancet Oncol. 2018;19(7):975–986; 2. LYNPARZA (olaparib). Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/9488/smpc (Accessed November 2023).



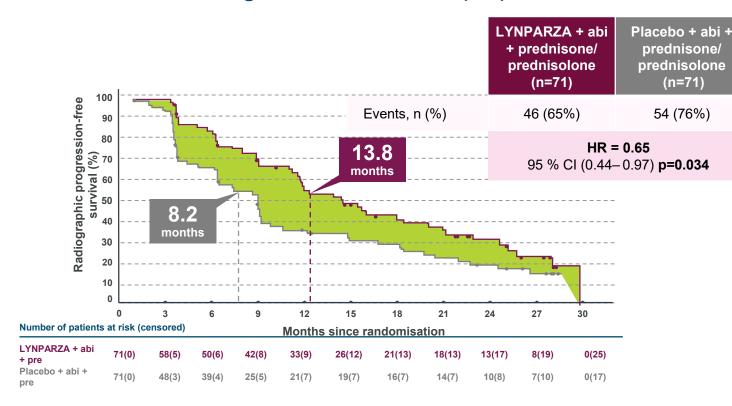




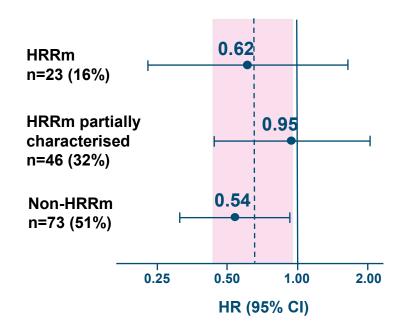
# Study 8: The addition of LYNPARZA significantly prolonged rPFS vs. abiraterone + prednisone/ prednisolone alone, irrespective of HRRm status<sup>1</sup>



### Investigator-assessed rPFS (ITT)<sup>1</sup>



### rPFS by HRRm subgroup\* (final analysis)†2



#### DCO: 22 September 2017.

\*Dashed line and shaded area show HR and 95% CI, respectively, for the intent to treat population. †Patients without a HRRm detected in the tumour tissue test and no HRRm detected by any other assay, and patients with ctDNA fraction estimated to be  $\geq$ 5% of ctDNA, and no HRR gene mutation detected in a plasma test.<sup>2</sup>

Abi=abiraterone; Cl=confidence interval; DCO=data cut-off; HR=hazard ratio; HRRm=homologous recombination repair gene mutation; ITT=intent-to-treat; pre=prednisolone/prednisone; rPFS=radiographic progression free survival. 1. Clarke NW, et al. *Lancet Oncol* 2018;19(7):975–986; 2. Carr TH, et al. *Cancers* 2021;13(22):5830.







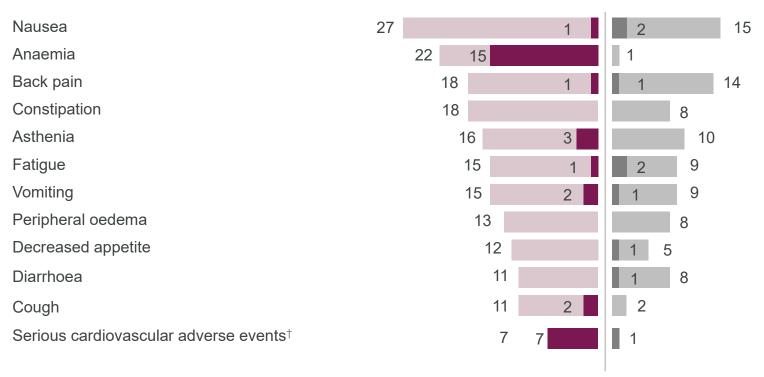
### Study 8: Adverse events associated with LYNPARZA + abiraterone + prednisone/prednisolone were generally recognised for the individual agents<sup>1</sup>



#### Adverse events experienced by >10 combination arm patients\*

Median treatment duration was 309 days for LYNPARZA compared with 253 days for placebo1

#### LYNPARZA + abiraterone + prednisone/prednisolone (n=71) Placebo + abiraterone + prednisone/prednisolone (n=71)



The significance of the cardiovascular events in the combination arm of Study 8 was unclear following case reviews, as cardiovascular events are not associated with olaparib, demanding further assessment in the Phase III RCT PROpel<sup>1,2</sup>

<sup>1.</sup> Clarke NW, et al. Lancet Oncol. 2018;19:975–986; 2. Clarke NW, et al. NEJM Evid. 2022;1(9):1–16.







All grades

Grade ≥3

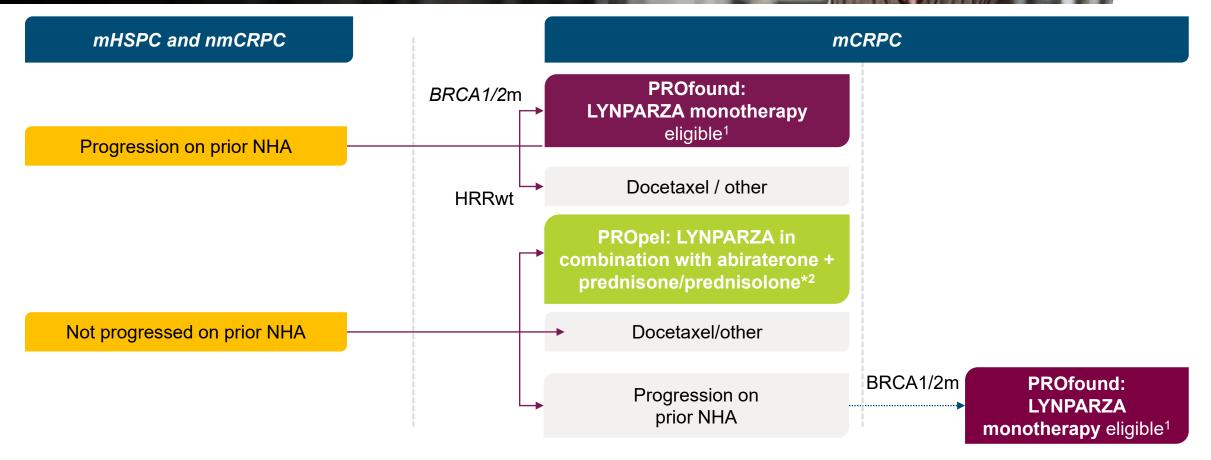
<sup>\*</sup>Numbers inside bars indicate Grade ≥3 adverse events.

<sup>†</sup>Experimental group: Myocardial infarction, n=4; fatal cardiac failure, n=1; chronic cardiac failure, n=1; fatal ischemic stroke, n=1. Placebo and abiraterone group; thrombotic stroke, n=1. RCT=randomised clinical trial.

### PROpel expands the opportunities for LYNPARZA in mCRPC







1L=first line; 2L=second line; ASCO=American Society of Clinical Oncology; EMA=European Medicines Agency; GU=genitourinary; HRRm=homologous-recombination-repair gene mutation; HRRwt=homologous recombination repair wild-type; mCRPC=metastatic castration-resistant prostate cancer; mHSPC=metastatic hormone-sensitive prostate cancer; NHA=novel hormonal agent; nmCRPC=non-metastatic castration-resistant prostate cancer.

1. de Bono J, et al. *N Engl J Med.* 2020;28;382(22):2091–2102; 2. Saad F, et al. Presented at ASCO GU 2022. 17–19 February. San Francisco, CA. Oral Abstract 1; 3. AstraZeneca. LYNPARZA in combination with abiraterone approved in the EU as 1st-line treatment for patients with metastatic castration-resistance prostate cancer. Available at: https://www.astrazeneca.com/media-centre/press-releases/2022/LYNPARZA-approved-in-eu-for-prostate-cancer.html (Accessed November 2023).











## PROpel trial TIME TO CHALLENGE

LYNPARZA + abiraterone + prednisone/prednisolone. The first and only PARPi-based combination therapy for first-line mCRPC patients not previously treated with an NHA, irrespective of biomarker status<sup>1</sup>



### PROpel studied LYNPARZA combination therapy in 1L mCRPC with any HRR mutation status<sup>1,2</sup>

N = 796





### **PROpel trial design**

### Key eligibility criteria

- Histologically or cytologically confirmed prostate adenocarcinoma with ≥1 metastatic lesion
- No prior 1L treatment for mCRPC
- Docetaxel during neoadjuvant / adjuvant treatment for localised prostate cancer and mHSPC was permitted
- Other NHAs permitted if treatment was stopped more than 12 months prior to randomisation\*
- ECOG performance status 0–1

Treatment was initiated with **full doses** of both LYNPARZA and abiraterone, maximising the effectiveness of the combination

# LYNPARZA 300 mg BID + abiraterone 1000 mg OD + prednisone/prednisolone 5 mg BID n=399

Placebo +
abiraterone 1000 mg OD +
prednisone/prednisolone 5 mg BID
n=397

#### **Stratification factors:**

- Metastases (bone only vs. visceral vs. other)
- Docetaxel treatment at mHSPC stage (yes vs. no)

### **Trial endpoints**

#### **Primary endpoints:**

- Imaging-based PFS by investigator assessment<sup>†</sup>
- Pre-specified sensitivity analysis of imaging-based PFS by BICR

#### **Key secondary endpoint:**

OS

#### Additional endpoints:

- TFST
- PFS2
- ORR
- HRR mutation prevalence (pre-defined, post-randomisation testing)
- Health-related QoL (FACT-P)
- Safety and tolerability
- Time to an SSRE
- Time to opiate use
- Pharmacokinetics

†Imaging-based PFS assessed by investigator per RECIST v1.1 (soft tissue) and PCWG-3 (bone) criteria.

1L=first-line; BICR=blinded independent central review; BID=twice daily; ECOG=Eastern Cooperative Oncology Group; FACT-P=Functional Assessment of Cancer Therapy - Prostate; HRR=homologous recombination-repair; mCRPC=metastatic castration-resistant prostate cancer; mHSPC=metastatic hormone-sensitive prostate cancer; NHA=novel hormonal agent; OD=once daily; ORR=objective response rate; OS=overall survival; PCWG-3=Prostate Cancer Working Group-3; PFS=progression-free survival; PFS2=time to second progression or death; QoL=quality of life; RECIST=Response Evaluation Criteria in Solid Tumours; SSRE=symptomatic skeletal-related event; TFST=time to first subsequent treatment.

1. Clinicaltrials.gov. NCT03732820. Available at: https://clinicaltrials.gov/ct2/show/NCT03732820 (Accessed November 2023); 2. Clarke NW, et al. NEJM Evid. 2022;1(9):1–16.







<sup>\*</sup>Except abiraterone.

### In PROpel, molecular testing to determine HRRm status was not done prospectively<sup>1</sup>





### **Prevent bias**

- HRRm status determination for all study eligible patients is complicated by sample and testing challenges
- Requiring determination of HRRm status pre-enrolment risks biasing patient enrolment to those with sufficient tumour, and/or detectable ctDNA



### **Ensure balanced** patient prevalence

- It was anticipated that due to the size of the study, the population baseline factors would be balanced
- Therefore, retrospective patient assignment to biomarker subgroups was expected to give balanced representation of HRR subgroups in the study arms

ctDNA=circulating tumour DNA; HRR(m)=homologous recombination repair (gene mutation). 1. Clarke NW, et al. *NEJM Evid.* 2022;1(9):1–16.





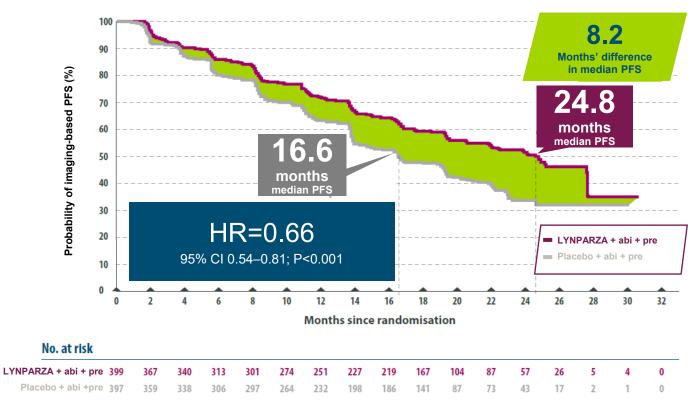


### Primary endpoint: At primary analysis, PROpel demonstrated a median 8.2-month improvement in rPFS vs. abiraterone P<0.001<sup>1,2</sup>





### Investigator-assessed imaging-based PFS in the ITT population at the primary analysis<sup>1,2</sup>



Adapted from Clarke NW, et al. 20221

DCO1: 30 July 2021.

Events: 394; Maturity 49.5% at DCO1.1

\*In combination with prednisone or prednisolone.

Abi=abiraterone; ASCO=American Society of Clinical Oncology; Cl=confidence interval; GU=genitourinary; HR=hazard ratio; PFS=progression-free survival; pre=prednisolone/prednisone; SOC=standard of care.

1. Clarke NW, et al. NEJM Evid. 2022;1(9); 2. Clarke NW, et al. Presented at ASCO GU 2023. 16–18 February. San Francisco, US. Abstract #LBA16



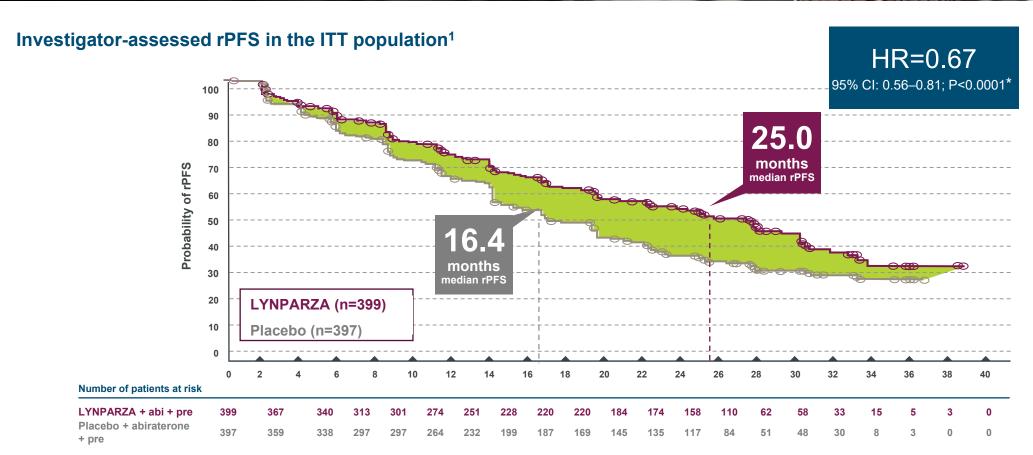




### The experimental arm increased rPFS by 8.6 months vs. the control arm at DCO21 P<0.0001 (nominal)\*







Adapted from Saad F et al. 20221

DCO2: 14 March 2022.

Median duration of follow-up for censored patients at DCO2 was 24.9 months (range 0.03-38.8) in the LYNPARZA arm and 27.4 months (range 0.03-36.76) in the placebo arm.

Abi=abraterone; CI=confidence interval; DCO=data cut-off; ESMO=European Society for Medical Oncology; HR=hazard ratio; ITT=intent-to-treat; pre=prednisolone/prednisone; rPFS=radiographic progression-free survival. 1. Saad F, et al. Presented at ESMO Annual Congress 2022. 9-13 September. Paris, France. Abstract #13570.



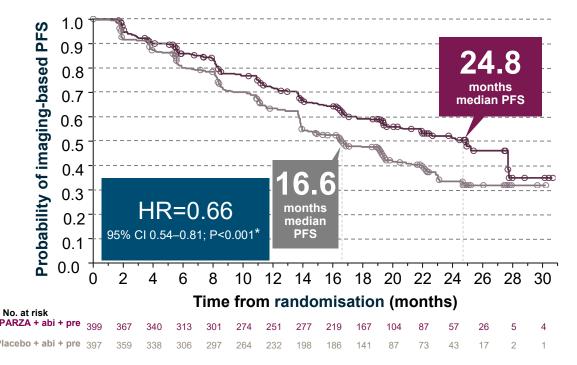


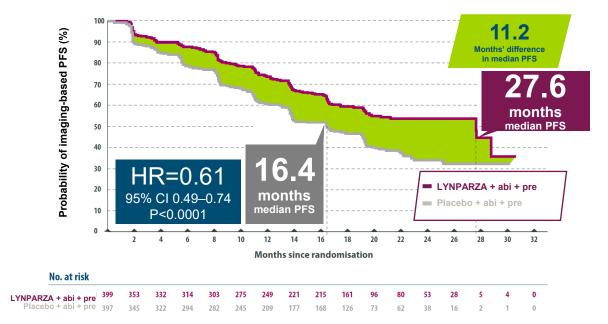




#### Investigator assessed imaging-based PFS in the ITT population<sup>1,2</sup>

#### BICR-assessed imaging-based PFS in the ITT population<sup>1,2</sup>





Adapted from Clarke NW, et al. 20221

Adapted from Clarke NW, et al. 20221

DCO1: 30 July 2021.2

\*Pre-specified 2-sided alpha: 0.0324.2

abi=abiraterone; ARR=absolute risk reduction; BICR=blinded independent central review; CI=confidence interval; ESMO=European Society for Medical Oncology; HR=hazard ratio; ITT=intent-to-treat; pre=prednisolone/prednisone; PFS=progression-free survival.

1. Clarke NW, et al. NEJM Evid. 2022;1(9):1–16; 2. Clarke NW, et al. Presented at ASCO GU 2023. 16–18 February. San Francisco, US. Abstract #LBA16.







### Secondary endpoint: mOS in the LYNPARZA arm was 42.1 months vs. 34.7 months in the placebo arm<sup>1</sup> Final OS analysis; P=0.0544\* (not statistically significant)









Number of patients at risk

LYNPARZA + abi + pre | 399 | 399 | 391 | 385 | 374 | 364 | 349 | 334 | 318 | 312 | 298 | 283 | 273 | 258 | 253 | 246 | 226 | 192 | 135 | 96 | 63 | 29 | 10 | 2 | 0 |

Placebo + abi + pre | 397 | 395 | 388 | 383 | 376 | 370 | 355 | 337 | 316 | 305 | 301 | 282 | 254 | 241 | 225 | 213 | 201 | 157 | 119 | 84 | 53 | 25 | 7 | 0 | 0

DCO3: 12 October 2022; 47.9% data maturity.

\*2-sided boundary for significance: 0.0377.

Median duration of follow-up for censored patients at DCO3 was 36.6 months (range 8.3–47.0) in the LYNPARZA arm and 36.5 months (range 2.9–45.3) in the placebo arm.

Abi=abiraterone; ASCO=American Society of Clinical Oncology; CI=confidence interval; DCO=data cut-off; GU=genitourinary; HR=hazard ratio; ITT=intent-to-treat; mOS=median overall survival; pre=prednisolone/prednisone.

1. Clarke NW, et al. Presented at ASCO GU 2023. 16-18 February. San Francisco, US. Abstract #LBA16.







### Secondary endpoint: OS benefit across subgroups was generally consistent with the ITT population<sup>1</sup>





	Number of patients, n		HR (95% CI)	Median O LYNPARZA + abi + pre	S, months Placebo + abi + pre
All patients	796	<b>⊢●</b> -	0.81 (0.67–1.00)	42.1	34.7
Age at randomisation <65	227	<b>⊢</b>	0.60 (0.40-0.90)	NR	33.9
Age at randomisation ≥65	569	<b>├─</b>	0.95 (0.75–1.19)	35.9	36.2
Metastasis: bone only	434	<b>⊢</b>	0.85 (0.64–1.13)	NR	38.3
Metastasis: visceral	105	<b>├</b>	0.89 (0.53–1.51)	34.0	26.1
Metastasis: other	257	<b>⊢</b> • • •	0.74 (0.52–1.05)	40.4	31.9
Docetaxel treatment at mHSPC stage	189	<b>⊢ • </b>	0.76 (0.52–1.11)	38.8	27.2
No docetaxel treatment at mHSPC stage	607	⊢●·H	0.85 (0.67–1.07)	NR	38.3
HRRm	226	<b>⊢</b>	0.66 (0.45–0.95)	NR	28.5
non-HRRm	552	⊢ <b>•</b> ⊢	0.89 (0.70–1.14)	42.1	38.9
BRCAm	85	<u> </u>	0.29 (0.14–0.56)	NR	23.0
non-BRCAm	693	<b>⊢●</b> -1	0.91 (0.73–1.13)	39.6	38.0
	Age at randomisation <65 Age at randomisation ≥65 Metastasis: bone only Metastasis: visceral Metastasis: other Docetaxel treatment at mHSPC stage No docetaxel treatment at mHSPC stage HRRm non-HRRm BRCAm	All patients 796  Age at randomisation <65 Age at randomisation ≥65 Age at randomisation ≥65  Metastasis: bone only 434  Metastasis: visceral 105  Metastasis: other 257  Docetaxel treatment at mHSPC stage 189  No docetaxel treatment at mHSPC stage 607  HRRm 226  non-HRRm 552  BRCAm 85	All patients 796  Age at randomisation <65 Age at randomisation ≥65  Metastasis: bone only 434  Metastasis: visceral 105  Metastasis: other 257  Docetaxel treatment at mHSPC stage 189  No docetaxel treatment at mHSPC stage 607  HRRm 226  mon-HRRm 552  BRCAm 85	patients, n         All patients       796       0.81 (0.67–1.00)         Age at randomisation <65	Patients, n       LYNPARZA + abi + pre ab

DCO3: 12 October 2022.

No p values were presented for this subgroup analysis.

\*The HRRm and BRCAm status of patients in PROpel was determined by prespecified HRRm testing conducted after randomisation, and before primary analysis, using tumour 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 unknown HRRm if no valid HRR test result from either test was achieved. 18 patients did not have a valid HRR testing result from either a tumour tissue or ctDNA test and were excluded from the subgroup analysis.

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LYNPARZA arm favoured Placebo arm favoured

Abi=abiraterone; ASCO=American Society of Clinical Oncology; BRCAm=BRCA mutation; CI=confidence interval; DCO=data cut-off; GU=genitourinary; HR=hazard ratio; HRRm=homologous recombination repair mutation; ITT=intention-to-treat; mHSPC=metastatic hormone-sensitive prostate cancer; NR=not reached; OS=overall survival; pre=prednisolone/prednisone.

1. Clarke NW, et al. Presented at ASCO GU 2023. 16–18 February. San Francisco, US. Abstract #LBA16.







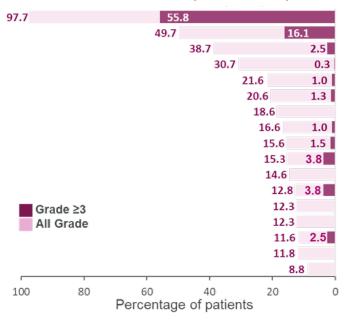
### Safety: The toxicity profiles remain consistent with those of the individual drugs and the primary analysis<sup>1</sup>

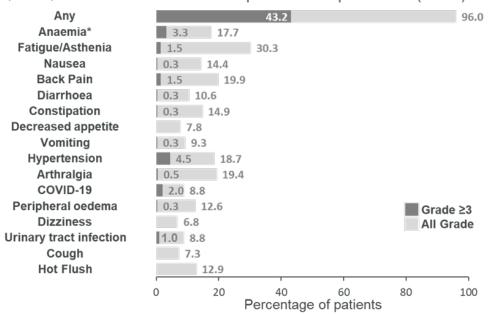




#### Most common AEs (in ≥10% patients)¹

LYNPARZA + abiraterone + prednisolone/prednisone (n=398) Placebo + abiraterone + prednisolone/prednisone (n=396)





The most frequently observed adverse reactions across clinical trials in patients receiving LYNPARZA monotherapy (≥ 10%) were nausea, fatigue/asthenia, anaemia, vomiting, diarrhoea, decreased appetite, headache, neutropenia, dysgeusia, cough, leukopenia, dizziness, dyspnoea and dyspepsia²

- More pulmonary embolisms were observed in the LYNPARZA arm in PROpel, consistent with other observations in other PARPi studies in mCRPC<sup>3</sup>
- The majority of pulmonary embolism events were asymptomatic and incidental on imaging<sup>1</sup>

#### DCO3: 12 October 2022.

Safety was assessed through the reporting of AEs according to the NCI CTCAE v4.03 and laboratory assessments.

\*Anaemia category includes anaemia, decreased haemoglobin level, decreased red cell count, decreased haematocrit level, erythropenia, macrocytic anaemia, normochromic anaemia, normochromic normocytic anaemia, and normocytic anaemia.

ASCO=American Society of Clinical Oncology; AE=adverse event; CTCAE=Common Terminology Criteria for Adverse Events; DCO=data cut-off; GU=genitourinary; mCRPC=metastatic castration-resistant prostate cancer; NCI=National Cancer Institute; PARPi=poly (ADP-ribose) polymerase inhibitor.

1. Clarke NW, et al. Presented at ASCO GU 2023. 16–18 February. San Francisco, US. Abstract #LBA16; 2. LYNPARZA (olaparib). Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/9488/smpc (Accessed November 2023); 3. Clarke NW, et al. NEJM Evid. 2022;1(9):1–16.







### LYNPARZA + abiraterone + prednisolone/prednisone therapy is simple to administer via oral dosing<sup>1</sup>



2 LYNPARZA tablets 2 times per day (with or without food)



The recommended dose of LYNPARZA is 300 mg (2 x 150 mg tablets) taken orally, twice daily, with or without food (total 600mg daily)









One 5 mg tablet twice daily (total 10 mg daily)



#### Dose adjustments and reductions

Treatment may be interrupted to manage adverse reactions such as nausea, vomiting, diarrhoea and anaemia, and dose reduction can be considered

- Initial reduction: 250 mg (1 x 150 mg tablet and 1 x 100 mg tablet) taken twice daily (total 500 mg daily)
- Final reduction: 200 mg (2 x 100 mg tablet) taken twice daily (total 400 mg daily)

It is recommended that treatment is continued until progression of the underlying disease or unacceptable toxicity.

1. LYNPARZA (olaparib). Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/9488/smpc (Accessed November 2023).







### Management of anaemia associated with LYNPARZA treatment<sup>1</sup>



#### **Advise patients that:**

- Anaemia is one of the most common side effects reported in clinical studies with LYNPARZA
- Management strategies exist to aid in the alleviation of the symptoms of anaemia
- Regular blood tests are necessary to monitor for adverse haematological reactions, including anaemia
- There is a possibility that a blood transfusion may be required
- Communication with their care team may inform their experience on therapy

### Advise patients to:

Contact their HCP if they experience weakness, feeling tired, fever, weight loss, frequent infections, bruising, bleeding easily, breathlessness, blood in urine or stool, low blood cell counts or a need for blood transfusions. This may be a sign of haematological toxicity or a more serious uncommon bone marrow problem (MDS or AML) which have been reported in patients treated with LYNPARZA

Immediately report any signs or symptoms of thromboembolism, such as pain or swelling in an extremity, shortness of breath, chest pain or tachycardia

AML=acute myeloid leukaemia; HCP=healthcare professional; MDS=myelodysplastic syndrome.

1. LYNPARZA (olaparib). Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/9488/smpc (Accessed November 2023).







# PROpel is a Phase III trial that has led to the approval of LYNPARZA + abiraterone + prednisone/ prednisolone in patients with mCRPC<sup>1</sup>





- LYNPARZA + abiraterone + prednisolone/prednisone met the primary endpoint for PROpel, demonstrating a statistically significant 8.2-month improvement in imaign-based PFS vs. placebo + abiraterone + prednisolone/prednisone<sup>2</sup>
- An OS difference (non-significant) was also observed in patients treated with LYNPARZA + abiraterone +
  prednisolone/prednisone vs. placebo + abiraterone + prednisolone/prednisone, and was sustained at the final prespecified analysis<sup>2–4</sup>

Median imaging-based PFS <sup>2</sup> DCO: 30 July 2021	Median OS <sup>4</sup> DCO: 12 October 2022: 47.9% maturity	
HR=0.66 (95% CI: 0.54–0.81; P<0.001)  LYNPARZA arm 24.8 months  Placebo arm16.6 months	HR=0.81 (95% CI: 0.67–1.00; P=0.0544)* LYNPARZA arm 42.1 months Placebo arm 34.7 months	

 LYNPARZA + abiraterone + prednisolone/prednisone is a generally well-tolerated combination prescribed at the full monotherapy dose for each individual drug,<sup>3</sup> with a consistent and generally manageable safety profile

<sup>1.</sup> AstraZeneca. Lynparza in combination with abiraterone EU approval. Available at: https://www.astrazeneca.com/media-centre/press-releases/2022/lynparza-approved-in-eu-for-prostate-cancer.html (Accessed November 2023); 2. Clarke NW, et al. NEJM Evid. 2022;1(9):1–16; 3. Saad F, et al. Presented at ESMO Annual Congress 2022. 9–13 September. Paris, France. Abstract #13570; 4. Clarke NW, et al. Presented at ASCO GU 2023. 16–18 February. San Francisco. US. Abstract #LBA16.

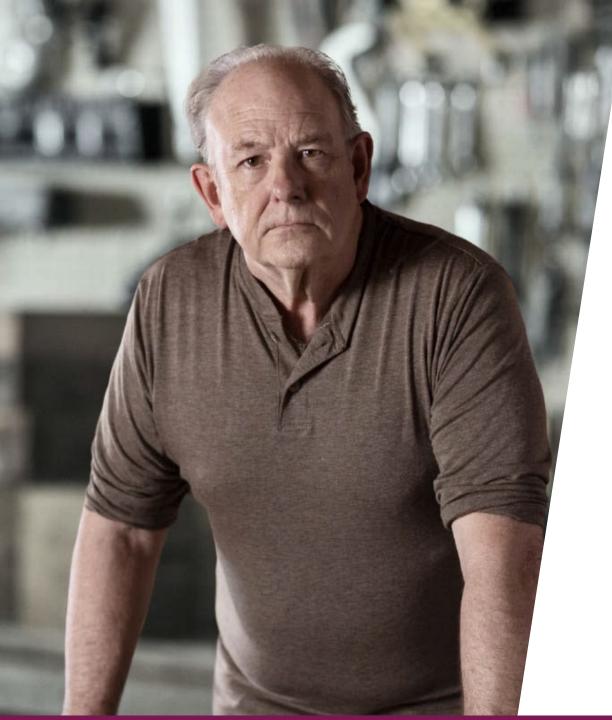






<sup>\*2-</sup>sided boundary for significance: 0.0377.4

ASCO=American Society of Clinical Oncology; CI=confidence interval; ESMO=European Society for Medical Oncology; GU=genitourinary; HR=hazard ratio; mCRPC=metastatic castration-resistant prostate cancer; OS=overall survival; PFS=progression-free survival.



# LYNPARZA combination therapy for your NHA naive patients with mCRPC

TIME TO CHALLENGE EXPECTATIONS IN METASTATIC CASTRATE-RESISTANT PROSTATE CANCER TREATMENT

