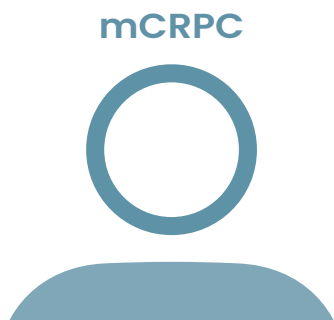


PARP INHIBITORS ARE EFFECTIVE DRUGS AS MONOTHERAPY IN mCRPC PATIENTS WITH HRR ALTERATIONS



In mCRPC patients, up to **one third** harbour somatic HRR mutations¹

Up to **10%** are of **germline** origin¹

BRCA1/2 and **ATM** gene mutations are **most common** but there are others¹



PARP inhibitors are a treatment option for patients with HRR mutations, as they trigger cell death in HRR-deficient cells

Trial name	Olaparib PROfound^{2,3}	Approved in ^{a,b} 	Rucaparib TRITON^{2,4,5}	Approved in ^c 
Phase	3		2	
Dose	300 mg bid		600 mg bid	
Required prior therapy	Progression on NHA for mPC and/or nmCRPC		1 taxane-based regimen AND ≥1 NHA for mCRPC	
Comparator	Physician's choice (enzalutamide or abiraterone)		Not applicable	
Primary endpoint	rPFS by BICR in Cohort A (<i>BRCA1</i> , <i>BRCA2</i> , or <i>ATM</i> mutations)		ORR	
Key results	<p>Median rPFS (months) <i>BRCA1/2</i> or <i>ATM</i>: Olaparib: 7.4 Comparator: 3.6 HR (95% CI): 0.34 (0.25-0.47)</p> <p>Median OS (months) <i>BRCA1/2</i> or <i>ATM</i>: Olaparib: 19.1 Comparator: 14.7 HR (95% CI): 0.69 (0.50-0.97)</p>		<p>ORR (IRR) 43.5% (95% CI, 31.0 - 56.7%; n=27/62)</p> <p>ORR (IA) 50.8% (95% CI, 38.1 - 63.4%; n=33/65)</p>	
Most common Grade 3+ AEs	Olaparib arm Anaemia: 23% Fatigue/asthenia: 3 % Nausea: 2%		Anaemia: 25% Fatigue/asthenia: 9% Thrombocytopenia: 10%	

a. Olaparib FDA-approved indication: indicated as monotherapy for the treatment of adult patients with mCRPC and HRRm, who have progressed on enzalutamide or abiraterone acetate, selected using an FDA-approved Lynparza companion diagnostic. b. Olaparib EMA-approved indication: indicated as monotherapy for the treatment of adult patients with mCRPC and a *BRCAm*, who have progressed on an NHA. Determine *BRCAm* status with a validated test method. c. Rucaparib FDA-approved indication: indicated as monotherapy for the treatment of adult patients with *BRCAm* mCRPC who have progressed on AR-directed therapy and a taxane.

AE, adverse event; ATM, ataxia telangiectasia mutated; BICR, Blinded Independent Central Review; bid, twice a day; *BRCA*(1/2), breast cancer (type 1/2) susceptibility protein; CI, confidence interval; CRPC, castration-resistant prostate cancer; EMA, European Medicines Agency; FDA, U.S. Food and Drug Administration; HR, hazard ratio; HRD, homologous repair defects; HRR, homologous recombination repair; HRRm, homologous recombination repair gene mutation; IA, investigator assessed; IRR, independent radiological review; m, mutated; mCRPC, metastatic castration-resistant prostate cancer; mPC, metastatic prostate cancer; NHA, novel hormonal agent; ORR, objective response rate; OS, overall survival; PARP, poly (ADP-ribose) polymerase; rPFS, radiographic progression-free survival

1. Robinson D, et al. Cell. 2015;161:1215-28; 2. de Bono J, et al. N Engl J Med. 2020;382:2091-2102; 3. Hussain M, et al. N Engl J Med. 2020;383:2345-57; 4. Abida W, et al. J Clin Oncol. 2020;38:3763-72; 5. Abida W, et al. Clin Cancer Res. 2020;26:2487-96; 6. Lynparza (olaparib) US prescribing information (Aug-2022); 7. Lynparza (olaparib) summary of product characteristics (Sep 2022); 8. Rubraca (rucaparib) US prescribing information

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