

### Final overall survival results from the Phase III PAOLA-1/ENGOT-ov25 trial evaluating maintenance olaparib plus bevacizumab in patients with newly diagnosed advanced ovarian cancer

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## Background

- The Phase III PAOLA-1/ENGOT-ov25 trial compared the efficacy of maintenance olaparib + bevacizumab with placebo + bevacizumab in patients with newly diagnosed advanced ovarian cancer who had received first-line standard-of-care treatment including bevacizumab
- In the primary analysis, olaparib + bevacizumab demonstrated a significant PFS benefit over placebo + bevacizumab (HR 0.59, 95% CI 0.49–0.72; P<0.001),<sup>1</sup> mainly in patients with HRD-positive\* tumours (HR 0.33, 95%CI 0.25–0.45)<sup>1</sup>
- This final PAOLA-1 analysis investigates whether the PFS advantage observed in the primary analysis translates to an OS advantage at 5 years in the first-line setting



## **PAOLA-1** trial design



### Maintenance therapy



\*Patients with other epithelial non-mucinous ovarian cancer were eligible if they had a gBRCAm; <sup>1</sup>Patients must have received ≥4 and ≤9 cycles of platinum-based chemotherapy; <sup>‡</sup>Patients must have received ≥3 cycles of bevacizumab with the last 3 cycles of chemotherapy, apart from patients undergoing interval surgery who were permitted to receive only 2 cycles of bevacizumab with the last 3 cycles of chemotherapy; <sup>§</sup>Bevacizumab 15 mg/kg every 3 weeks for a total of 15 months, including when administered with chemotherapy; <sup>¶</sup>According to timing of surgery and NED/CR/PR. bid, twice daily; CR, complete response; FIGO, International Federation of Gynecology and Obstetrics; gBRCAm, germline BRCA mutation; NED, no evidence of disease; PBC, platinum-based chemotherapy; PFS2, time from randomization to second progression or death; PR, partial response; RECIST, Response Evaluation Criteria in Solid Tumours.



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## **Statistical analysis**

• A hierarchical testing strategy was applied for key endpoints



• Predefined OS subgroup analyses by tumour BRCAm status\* and HRD score<sup>†</sup> will be performed

2015	2016	2017	2018	2019	2020	2021	2022	
						_		
First patient i 10 July 201	in: 5 1	Last patient in: September 2017	P 22 M	FS DCO: March 2019	PFS2 DCO: 22 March 2020		Final OS DCO: 22 March 2022	

\*By central labs; <sup>†</sup>By Myriad myChoice HRD Plus; defined as genomic instability score ≥42. DCO, data cutoff.





## **Patient characteristics**

		(N=537)	Placebo + bevacizumab (N=269)
Age, median, years (range)		61 (32–87)	60 (26–85)
FIGO stage, n (%)	III IV	378 (70) 159 (30)	186 (69) 83 (31)
HRD status,* n (%)	HRD positive tBRCAm HRD positive excluding tBRCAm HRD negative/HRD unknown HRD negative	255 (47) 157 (29) 97 (18) 282 (53) 192 (36)	132 (49) 80 (30) 55 (20) 137 (51) 85 (32)
	<ul><li>Upfront surgery</li><li>No residual macroscopic disease</li><li>Residual macroscopic disease</li></ul>	271 (50) 160 (59) 111 (41)	138 (51) 85 (62) 53 (38)
History of cytoreductive surgery, n (%)	<ul><li>Interval cytoreductive surgery</li><li>No residual macroscopic disease</li><li>Residual macroscopic disease</li></ul>	228 (42) 163 (71) 65 (29)	110 (41) 75 (68) 35 (32)
	No surgery	38 (7)	21 (8)
Response after surgery/PBC, n (%)	NED CR PR	290 (54) 106 (20) 141 (26)	141 (52) 53 (20) 75 (28)

\*BRCAm status by central labs and HRD status by Myriad myChoice HRD Plus; patients in tBRCAm and HRD positive excluding tBRCAm

subgroups do not equal the total number of patients in the HRD-positive subgroup because of different testing methods.

tBRCAm, tumour BRCAm.





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	HRD negative/HRD unknown	282 (53)	137 (51)
	HRD negative	192 (36)	85 (32)
	Upfront surgery	271 (50)	138 (51)
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subgroups do not equal the total number of patients in the HRD-positive subgroup because of different testing methods.

tBRCAm, tumour BRCAm.



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## **Patient disposition at final DCO**

		Olaparib + bevacizumab (N=537)	Placebo + bevacizumab (N=269)
Randomized, n		537	269
Treated, n (%)		535	267
Patients who withdrew from study, n (%)	Total Patient lost to follow-up Death Consent withdrawn Study completed	537 (100) 6 (1) 286 (53) 15 (3) 230 (43)	269 (100) 0 (0) 158 (59) 6 (2) 105 (39)
Median duration of treatment,* months	Olaparib/placebo Bevacizumab	17.3 11.0	15.6 10.6
Median duration of follow-up for OS, months (IQR)		61.7 (57.5–67.0)	61.9 (58.1–66.8)

\*Median duration of treatment with bevacizumab since randomization. IQR, interquartile range.





## **OS analysis: ITT population**





PARP, poly(ADP-ribose) polymerase.

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## OS was prolonged in the HRD-positive subgroup



\*Median unstable; <50% data maturity.



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HRD positive defined as a tBRCAm and/or genomic instability score of ≥42 on the Myriad myChoice HRD Plus assay. Content of this presentation is copyright and responsibility of the author. Permission is required for re-use.



## **Updated PFS: HRD-positive population\***





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\*Descriptive analysis; PFS by investigator-assessment (modified RECIST v1.1). Content of this presentation is copyright and responsibility of the author. Permission is required for re-use.



# OS subgroup analysis by BRCAm and HRD status



	(N=157)	(N=80)
Events, n (%)	48 (30.6)	37 (46.3)
Median OS, months	75.2 (unstable) <sup>†</sup>	66.9
5-year OS rate, %	73.2	53.8
PARPi as subsequent treatment, n (%)	38 (24.2)	44 (55.0)
	HR 0.60 (95% CI 0.39-0.93)	

# OS subgroup analysis by BRCAm and HRD status



\*By central labs; †Unstable median; <50% data maturity; \*By Myriad myChoice HRD Plus. NR, not reported.

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# OS subgroup analysis by BRCAm and HRD status



\*By central labs; <sup>†</sup>Unstable median; <50% data maturity; <sup>‡</sup>By Myriad myChoice HRD Plus. NR, not reported.

European Network of Gynaecological Oncological Trial gr

GINECO



## **AEs of special interest**

	Primary PFS analysis (DCO: 22 March 2019)		Final PFS2 analysis (DCO: 22 March 2020)	
	Olaparib + bevacizumab (N=535)	Placebo + bevacizumab (N=267)	Olaparib + bevacizumab (N=535)	Placebo + bevacizumab (N=267)
MDS/AML/AA, n (%)	6 (1.1)	1 (0.4)	7 (1.3)	4 (1.5)
New primary malignancies, n (%)	7 (1.3)	3 (1.1)	13 (2.4)	5 (1.9)
Pneumonitis/ILD/bronchiolitis, n (%)	6 (1.1)	0 (0.0)	6 (1.1)	0 (0.0)

• All patients had discontinued treatment at PFS2 DCO

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• TEAEs have been reported previously<sup>1,2</sup> and the olaparib safety profile has been well characterized



AA, aplastic anaemia; AE, adverse event; AML, acute myeloid leukaemia; ILD, interstitial lung disease; MDS, myelodysplastic syndrome. 1. Ray-Coquard I *et al.* N Engl J Med 2019;381:2416–28; 2. González-Martín A *et al.* Eur J Cancer 2022;174:221–31. Content of this presentation is copyright and responsibility of the author. Permission is required for re-use.



## **AEs of special interest**

	Primary PFS analysis (DCO: 22 March 2019)		Final PFS2 analysis (DCO: 22 March 2020)		Final OS analysis (DCO: 22 March 2022)	
	Olaparib + bevacizumab (N=535)	Placebo + bevacizumab (N=267)	Olaparib + bevacizumab (N=535)	Placebo + bevacizumab (N=267)	Olaparib + bevacizumab (N=535)	Placebo + bevacizumab (N=267)
MDS/AML/AA, n (%)	6 (1.1)	1 (0.4)	7 (1.3)	4 (1.5)	9 (1.7)	6 (2.2)
New primary malignancies, n (%)*	7 (1.3)	3 (1.1)	13 (2.4)	5 (1.9)	22 (4.1)	8 (3.0)
Pneumonitis/ILD/bronchiolitis, n (%)†	6 (1.1)	0 (0.0)	6 (1.1)	0 (0.0)	7 (1.3)	2 (0.7)

- All patients had discontinued treatment at PFS2 DCO
- TEAEs have been reported previously<sup>1,2</sup> and the olaparib safety profile has been well characterized

\*New primary malignancies were: 1 plasma cell myeloma, 2 basal cell carcinoma, 11 breast cancer, 1 bronchial carcinoma, 1 colon cancer, 1 glioblastoma, 1 malignant neoplasm, 1 pancreatic carcinoma, 2 squamous cell carcinoma, and 1 ureteric cancer in the olaparib arm; and 1 papillary thyroid cancer, 4 breast cancer, 1 diffuse large B-cell lymphoma, 1 malignant lung neoplasm, and 1 malignant neoplasm in the placebo arm; 1 diffuse large B-cell lymphoma, 1 malignant lung neoplasm, and 1 malignant neoplasm in the placebo arm; 1 pneumonitis/ILD/bronchiolitis events were: 1 bronchiolitis, 1 pneumonia, 1 acute respiratory distress syndrome, 2 interstitial lung disease, and 2 pneumonitis in the olaparib arm; and 1 corona virus infection and 1 pneumonitis case in the placebo arm.
 AA, aplastic anaemia; AE, adverse event; AML, acute myeloid leukaemia; ILD, interstitial lung disease; MDS, myelodysplastic syndrome. 1. Ray-Coquard I *et al. N Engl J Med* 2019;381:2416–28; 2. González-Martín A *et al. Eur J Cancer* 2022;174:221–31.
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## Conclusions

- In the PAOLA-1/ENGOT-ov25 trial, despite 50% of patients in the control arm receiving a PARP inhibitor post-progression, the addition of maintenance olaparib to bevacizumab provided a clinically meaningful OS benefit in patients who were HRD positive (5-year OS rate: 65.5% vs 48.4%; HR 0.62, 95% CI 0.45–0.85)
  - A clinically meaningful benefit was observed in HRD-positive patients regardless of BRCAm status
- No OS difference was observed in the HRD-negative subgroup
- No new safety signals were observed with longer-term follow-up
  - Incidence of MDS/AML and new primary malignancies remained low and balanced between arms
- These data confirm the addition of olaparib to bevacizumab as a standard of care for HRD-positive patients in this setting, and the importance of precision medicine and biomarker testing to guide treatment decisions



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