

### OlympiA

A Randomised, Double-blind, Parallel Group, Placebocontrolled Multi-centre Phase III Study to Assess the Efficacy and Safety of Olaparib Versus Placebo as Adjuvant Treatment in Patients With gBRCA1/2 Mutations and High Risk HER2-Negative Primary Breast Cancer Who Have Completed Definitive Local Treatment and Neoadjuvant or Adjuvant Chemotherapy

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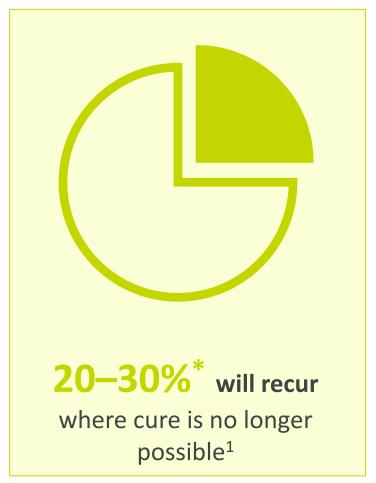
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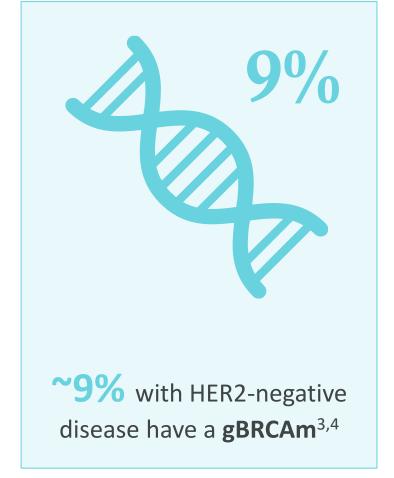




### Over a quarter of people with early breast cancer will have their cancer return<sup>1</sup>









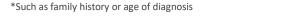




## Detection of a germline BRCAm significantly impacts a patient's care plan



The OlympiA trial investigates olaparib as an adjuvant therapy for patients with gBRCAm, HER2-negative eBC who have a high risk of recurrence despite standard of care local and systemic therapy



ABBREVIATIONS







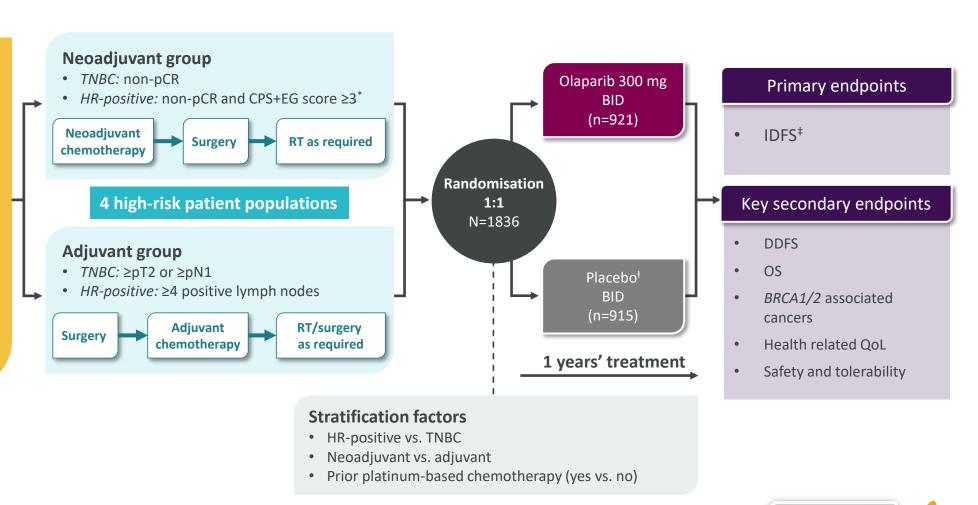
Study design



## OlympiA: Phase III study of olaparib versus placebo as adjuvant treatment for high risk gBRCA-mutated, HER2-negative BC

#### **Eligibility**

- Germline pathogenic BRCA1 or BRCA2 mutation
- Non-metastatic primary invasive BC
- HER2-negative (HR-positive or TNBC)
- Completed local treatment and ≥ six cycles of neoadjuvant or adjuvant chemotherapy containing anthracyclines and/or taxanes



<sup>\*</sup> CPS+EG score incorporates pretreatment clinical stage, oestrogen receptor status, nuclear grade and pathological stage after neoadjuvant chemotherapy







<sup>&</sup>lt;sup>+</sup>Data to support adjuvant capecitabine was not available when the OlympiA study was initiated in 2014

<sup>8 &</sup>lt;sup>‡</sup> by STEEP system<sup>2</sup>

#### A multiple testing procedure was adopted



**IDFS** primary analysis 165 IDFS events in mature cohort<sup>1</sup> (ASCO 2021)

**Second OS interim analysis** 330 IDFS events in ITT<sup>2</sup> (ESMO Virtual Plenary 2022)

**DDFS** and **OS** analysis 10 years from FPI<sup>3</sup> (SABCS 2024)

DCO1: 27 March 2020<sup>1</sup>

DCO2: 12 July 2021<sup>2</sup>

DCO3: 05 June 2024<sup>3</sup>

DDFS and OS will only be tested if IDFS is significant Invasive disease-free survival p<0.005

Invasive disease-free survival descriptive

Invasive disease-free survival descriptive

If DDFS is significant, OS will be tested at p<0.01

Distant disease-free survival p<0.005

Distant disease-free survival descriptive

Distant disease-free survival descriptive

Overall survival p<0.01

Overall survival p<0.015

Overall survival descriptive

Median follow-up<sup>1</sup>:

ITT population: 2.5 years Mature cohort: 3.5 years Median follow-up<sup>2</sup>:

ITT population: 3.5 years

Median follow-up<sup>3</sup>:

ITT population: 6.1 years

Maximum follow-up: 9.6 years

Significance boundaries were crossed for IDFS and DDFS at the prior planned interim analysis IDFS and for OS at OS interim analysis. No further significance testing was performed









Patient disposition and baseline characteristics





### Baseline characteristics were well balanced between treatment groups

	Olaparib n=921	Placebo n=915
Age – years, median (interquartile range), years	42 (36–49)	43 (36–50)
Female, <i>n</i> (%)	919 (99.8)	911 (99.6)
BRCA gene affected in germline, n (%)  BRCA1  BRCA2  BRCA1 & BRCA2  Missing	657 (71.3) 261 (28.3) 2 (0.2) 1 (0.1)	670 (73.2) 239 (26.1) 5 (0.5) 1 (0.1)
Menopausal status (females only), n (%) Premenopausal Postmenopausal	572/919 (62.2) 347/919 (37.8)	552/911 (60.6) <sup>2</sup> 359/911 (39.4) <sup>2</sup>
Bilateral invasive breast cancer, n (%)  No  Yes	881 (95.7) 40 (4.3)	888 (97.0) 27 (3.0)





### Approximately 80% of patients had TNBC



		Olaparib n=921	Placebo n=915
Taxane regimen (without taxar	<b>mendment</b> al protocol activated in 2014	461 (50.1) Was developed	455 (49.7) 460 (50.3) 850 (92.9) <sup>2</sup> 13 (1.4) 52 (5.7)
No No	ts with HER2-negative diseas nts with TNBC following a reg atient with HR-positive disea	gulatory review.	677 (74.0) 238 (26.0)
HR status n (%) <sup>†</sup> HR-positive / HER2-negative  TNBC <sup>‡</sup> Decembe	2015.		157 (17.2) 758 (82.8)
Concurrent hormone therapy (HR-positive only), n/N	(%)	146/168 (86.9)	146/157 (93.0) <sup>2</sup>



PROTOCOL AMENDMENT

<sup>\*7</sup> patients in the Olaparib arm and 15 patients in the placebo arm received less than 6 cycles of (neo)adjuvant chemotherapy. Regimen for 1 patients in the placebo arm was not reported. All reported as protocol deviations; †Defined by local test results; †TNBC: ER- and PgR-negative defined as IHC nuclear staining <1% AND HER2-negative (not eligible for anti-HER2 therapy) defined as IHC 0, 1+ without ISH OR IHC 2+ and ISH non-amplified with ratio <2.0 and, if reported, average HER2 copy number <4 signals/cell OR ISH nonamplified with ratio < 2.0 and, if reported, average HER2 copy number < 4 signals/cell (without IHC). Two patients were excluded from the summary of the TNBC subset because they 12 did not have a confirmed HER2-negative status



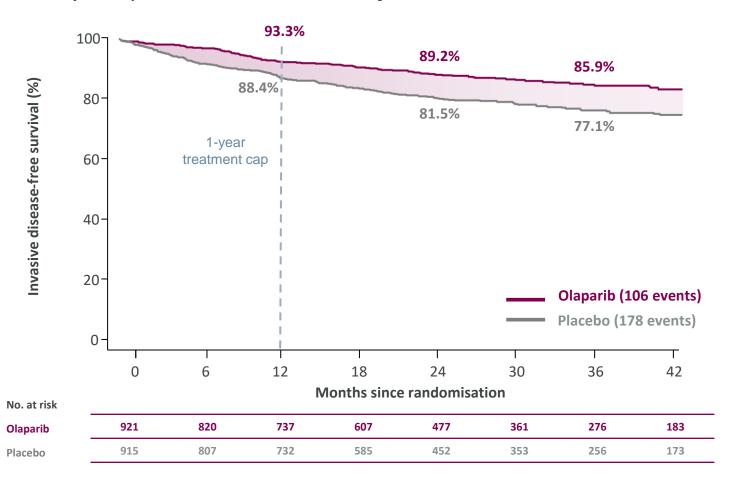


Efficacy outcomes



### Olaparib reduced the risk of invasive recurrence or death by 42% vs. placebo

Primary endpoint: invasive disease-free survival



IDFS at DCO1<sup>‡</sup>

HR 0.58<sup>†</sup> 99.5% CI 0.41-0.82 p<0.001

3-year IDFS rate\*

**Olaparib** 85.9% (n=921)

Placebo 77.1% (n=915)

> Difference 8.8% 95% CI 4.5-13.0

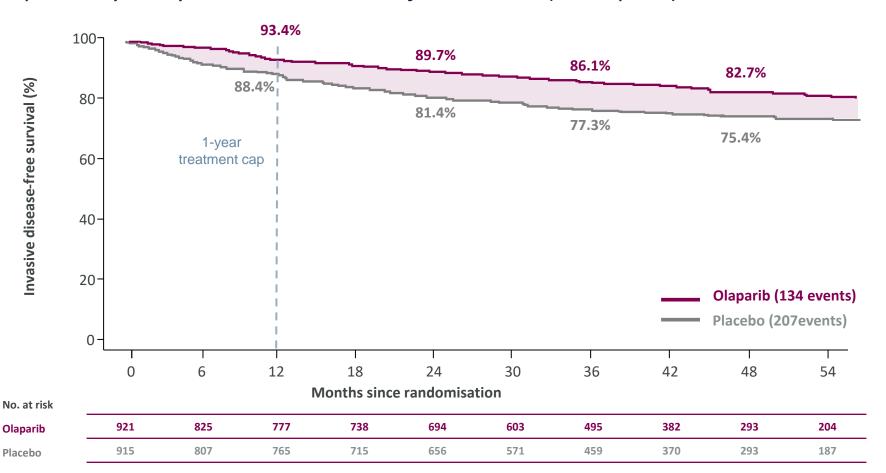






## IDFS benefit associated with olaparib was maintained with 1-year additional follow-up\* (DCO2)

Exploratory analysis: invasive disease-free survival (descriptive)



IDFS at DCO2\*

**HR 0.63** 95% CI 0.50–0.78

4-year IDFS rate

Olaparib (n=921) **82.7%** 

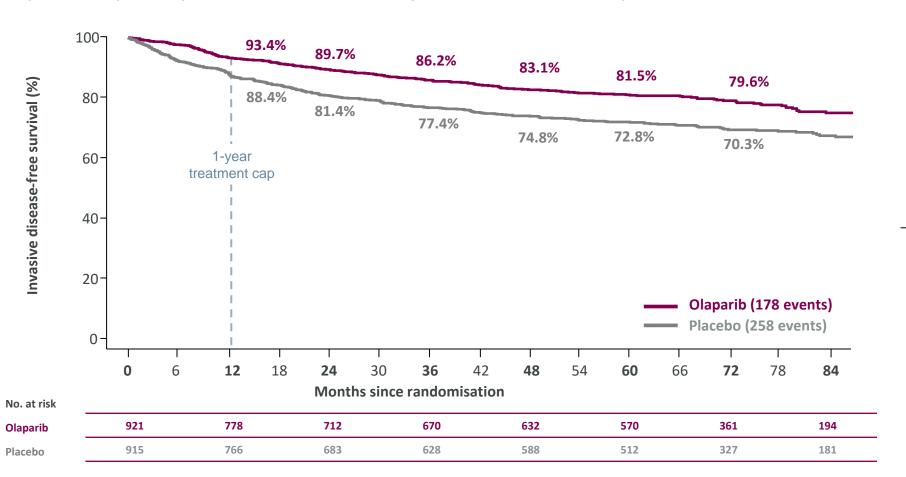
Placebo (n=915) **75.4%** 

**Difference 7.3%** 95% CI 3.0–11.5



### At 6.1 years median follow-up, one year of adjuvant olaparib after (neo)adjuvant chemotherapy continues to demonstrate clinically meaningful improvements in IDFS

Exploratory analysis: invasive disease-free survival (descriptive)



**IDFS at DCO3** 

**HR 0.65** 95% CI 0.53–0.78

6-year IDFS rate

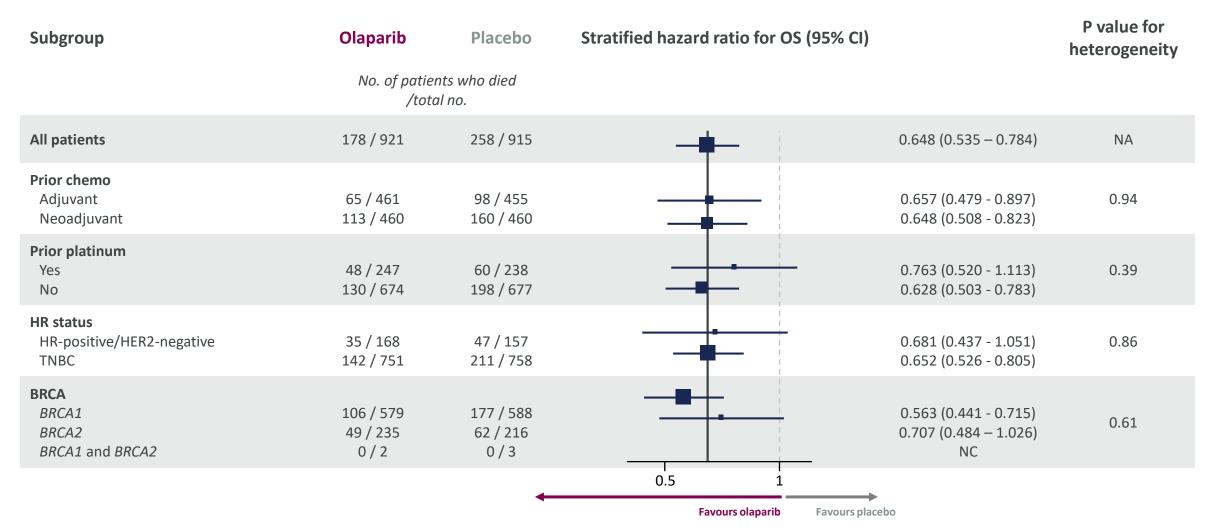
Olaparib (n=921) 79.6%

Placebo (n=915) 70.3%

**Difference 9.4%** 95% CI 5.1–12.7



### A consistent benefit was seen across key IDFS subgroups at DCO3



DCO3 June 2024; median follow-up 6.1 years.

All subgroup hazard ratio estimates are <1 and all confidence intervals include the ITT population hazard ratio (shown by solid red vertical line as per Cuzick J., Lancet 2005; 365:1308)

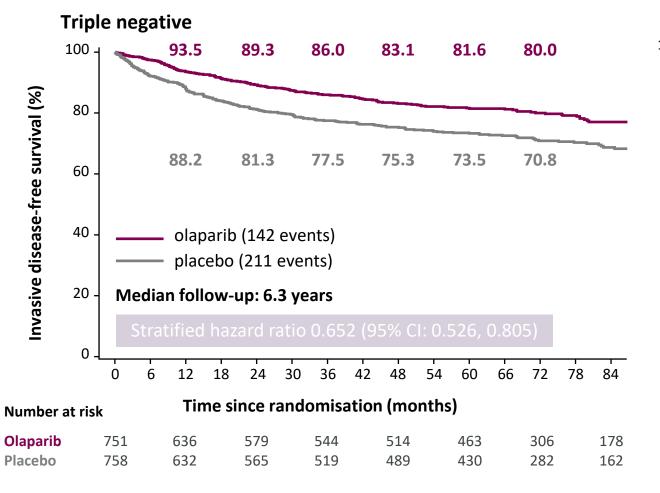


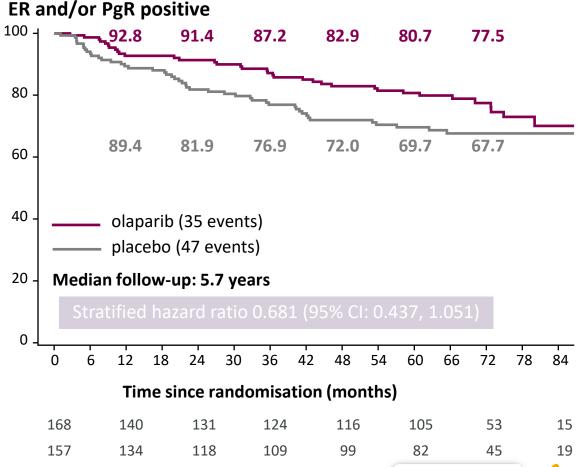




## Olaparib benefit was consistent across all key subgroups, including for patients with high-risk, ER and/or PgR positive disease

The TNBC cohort (82% of randomized patients and with >6 years MFU) is relatively more mature





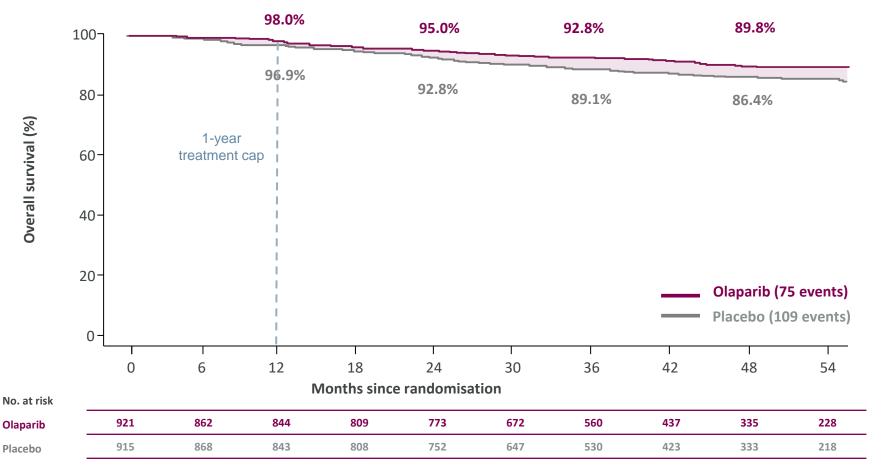






### Olaparib demonstrated a significant OS benefit vs. placebo with 90% of patients alive at 4-years in the olaparib arm

Secondary endpoint: overall survival



OS at DCO2\*

HR 0.68<sup>†</sup> 98.5% CI 0.47–0.97 p=0.009

4-year OS rate

Olaparib (n=921) **89.8%** 

Placebo (n=915) **86.4%** 

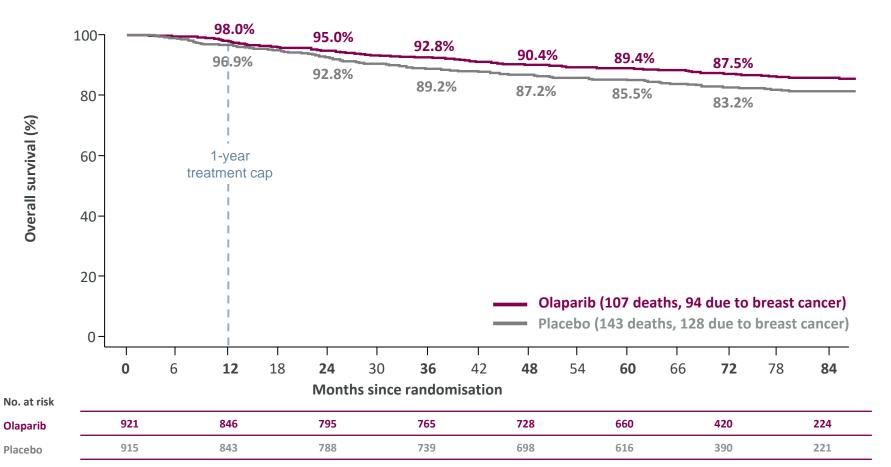
**Difference 3.4%** 95% CI -0.1–6.8



<sup>\*</sup>Data from the pre-specified second interim analysis of OS (at ~330 IDFS events); cut-off date July 2021 (DCO2), data maturity 9%; median follow-up 3.5 years; †Non-proportional hazards; 98.5% CI is shown for the HR for OS because p<0.015 is required to indicate statistical significance for this endpoint

# Olaparib continued to demonstrate OS benefit vs. placebo at 6-years in the olaparib arm

Secondary endpoint: overall survival



OS at DCO3

**HR 0.72** 95% CI 0.56–0.93

6-year OS rate

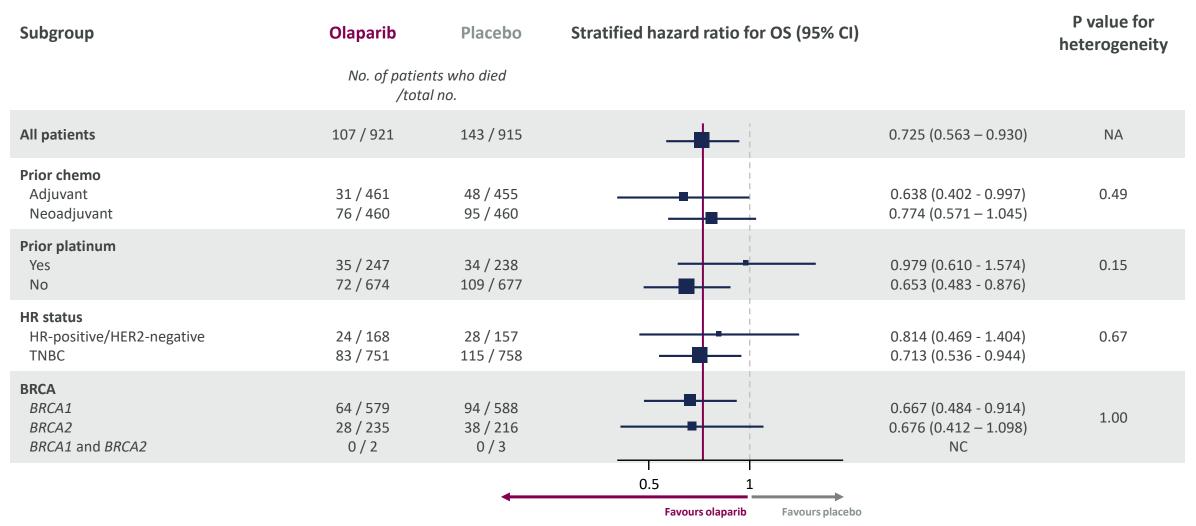
Olaparib (n=921) **87.5%** 

Placebo (n=915) **83.2%** 

**Difference 4.4%** 95% CI 0.9–6.7



### OS benefit was derived across key subgroups (DCO3)



DCO3 June 2024; median follow-up 6.1 years.

All subgroup hazard ratio estimates are <1 and all confidence intervals include the ITT population hazard ratio (shown by solid red vertical line as per Cuzick J., Lancet 2005; 365:1308)

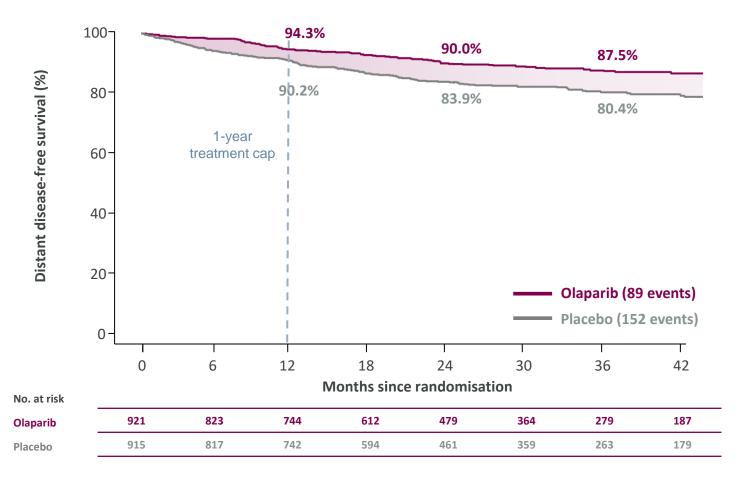






## Over 7% more patients treated with adjuvant olaparib were free of distant recurrence or death at 3 years vs. placebo

Secondary endpoint: distant disease-free survival



DDFS at DCO1\*

HR 0.57 <sup>†</sup>
99.5% CI, 0.39–0.83
P<0.001

**3-year DDFS rate** 

Olaparib (n=921) **87.5%** 

Placebo (n=915) **80.4%** 

**Difference 7.1%** 95% CI, 3.0–11.1

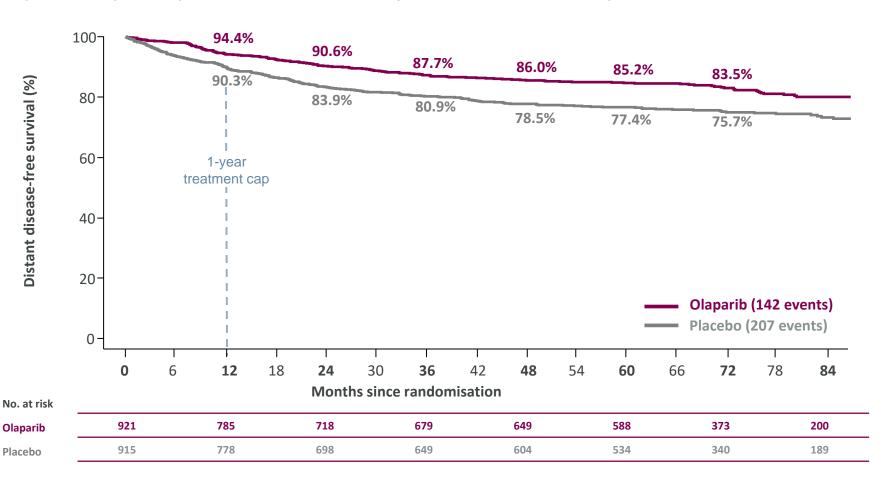




### cebo 🕡

## Longer follow-up confirms DDFS benefit of adjuvant olaparib vs placebo with over 7% more patients free of distant recurrence at 6 years

Exploratory analysis: distant disease-free survival (descriptive)



#### **DDFS at DCO3**

**HR 0.65** 95% CI, 0.53–0.81

#### 6-year DDFS rate

Olaparib (n=921) **83.5%** 

Placebo (n=915) **75.7%** 

**Difference 7.8%** 95% CI, 3.8–11.5



### A consistent benefit was seen across key DDFS subgroups with long term follow-up (DCO3)

Subgroup	Olaparib	Placebo	Stratified hazard ratio for OS (95% CI)	P value for heterogeneity
	No. of patient /total			
All patients	142 / 921	207 / 915	0.653 (0.526 – 0.807	) NA
<b>Prior chemo</b> Adjuvant Neoadjuvant	45 / 461 97 / 460	72 / 455 135 / 460	0.623 (0.427 - 0.901) 0.675 (0.518 – 0.874	
Prior platinum Yes No	42 / 247 100 / 674	50 / 238 157 / 677	0.812 (0.537 - 1.222)	
HR status HR-positive/HER2-negative TNBC	33 / 168 109 / 751	41 / 157 166 / 758	0.745 (0.469 - 1.177) 0.645 (0.505 - 0.820)	
BRCA1 BRCA2 BRCA1 and BRCA2	81 / 579 45 / 235 0 / 2	138 / 588 55 / 216 0 / 3	0.563 (0.426 - 0.739) 0.730 (0.490 – 1.081 NC	0.57
			0.5 1	

DCO3 June 2024; median follow-up 6.1 years.





Favours placebo

**Favours olaparib** 





### Fewer patients in the olaparib arm vs. placebo had second primary nonbreast cancers

Fewer patients in the olaparib arm had a CNS recurrence vs. the placebo arm

Olaparib N=921

Placebo N=915

	Glapanik			
n (%)	DCO3 June 2024 <sup>1</sup>	DCO2 July 2021 <sup>2</sup>	DCO3 June 2024 <sup>1</sup>	DCO2 July 2021 <sup>2</sup>
Number of patients with a first IDFS events*	178 (19.3)	134 (14.5)	258 (28.2)	207 (22.6)
Distant recurrence Distant CNS recurrence Distant excluding CNS recurrence	106 (11.5) 26 (2.8) 80 (8.7)	88 (9.6) 24 (2.6) 64 (6.9)	149 (16.3) 40 (4.4) 109 (11.9)	136 (14.9) 38 (4.2) 98 (10.7)
Regional (ipsilateral) recurrence	11 (1.2)	9 (1.0)	22 (2.4)	18 (2.0)
Local (ipsilateral) recurrence	11 (1.2)	9 (1.0)	12 (1.3)	12 (1.3)
Contralateral invasive breast cancer	26 (2.8)	15 (1.6)	36 (3.9)	18 (2.0)
Second primary non-breast malignancies	20 (2.2)	11 (1.2)	37 (4.0)	23 (2.5)
Deaths without a prior IDFS event <sup>†</sup>	4 (0.4)	2 (0.2)	2 (0.2)	0

<sup>\*</sup>If two recurrence events are reported within 2 months of each other this is referred to as a simultaneous event and will be considered as a single event. In this situation the worst case will be taken as the event 'type' but the date of recurrence will be the earliest date of the two events. †Deaths in the olaparib arm: cardiac arrest (n = 1), heart failure with preserved ejection fraction (n = 1), unknown cause (n = 2); Deaths in the placebo arm: COVID19 (n = 1), cardiogenic shock (n = 1).





## The total number of deaths was higher in the placebo arm compared to the olaparib arm, for both DCOs

Olaparib N=921

Placebo N=915

n (%)	DCO3 June 2024 <sup>1</sup>	DCO2 July 2021 <sup>2</sup>	DCO3 June 2024 <sup>1</sup>	DCO2 July 2021 <sup>2</sup>
Total number of deaths*	107 (11.6)	75 (8.1)	143 (15.6)	109 (11.9)
Primary cause of death  Breast cancer recurrence Other† Missing	94 (10.2) 13 (1.4) 0 (0.0)	70 (7.6) 5 (<1) 0 (0.0)	128 (14.0) 15 (1.6) 0 (0.0)	103 (11.3) 6 (<1) 0 (0.0)

<sup>\*</sup>Other cause of death (including fatal AEs): <u>olaparib</u>: pancreatic carcinoma (n = 1), acute myeloid leukemia (n = 3), cardiovascular (n=4), multiple organ dysfunction syndrome (n = 1), neutropenic sepsis (n = 1), unknown (n = 3) <u>placebo</u>: ovarian cancer (n = 2), pancreatic carcinoma (n = 1), pharyngeal carcinoma (n = 1), acute myeloid leukaemia (n = 3), myelodysplastic syndrome (n = 1), pneumonitis (n = 1), cardiovascular (n = 2), superior vena cava occlusion (n = 1), covid-19 (n = 1), unknown (n = 2).





<sup>\*</sup>As reported on the CRF (Death page).





Safety





### >70% of patients completed treatment according to protocol without the need for a dose reduction

	Olaparib n=921	Placebo n=915
Completed treatment per protocol, $n (\%)^{*\ddagger}$	674 (73.2)	715 (78.1)
	Olaparib* n=911	Placebo* n=904
Patients with no dose reduction, n (%) <sup>†</sup>	683 (75.0)	857 (94.8)
Reason for reduction, $n (\%)^{\ddagger}$		
Adverse event	222 (24.4)	35 (3.9)
Dosing error	6 (0.7)	10 (1.1)
Administrative reasons	2 (0.2)	1 (0.1)
Other	0 (0.0)	1 (0.1)
Patients with no dose interruption, n (%) <sup>+</sup>	392 (43.0)	499 (55.2)
Reason for interruption, n (%) †		
Adverse event	330 (36.2)	238 (26.3)
Surgery	226 (24.8)	10 (1.1)
Recurrence of disease	38 (4.2)	78 (8.6)
Others (including dosing error and administrative reasons)	27 (3.0)	40 (4.4)

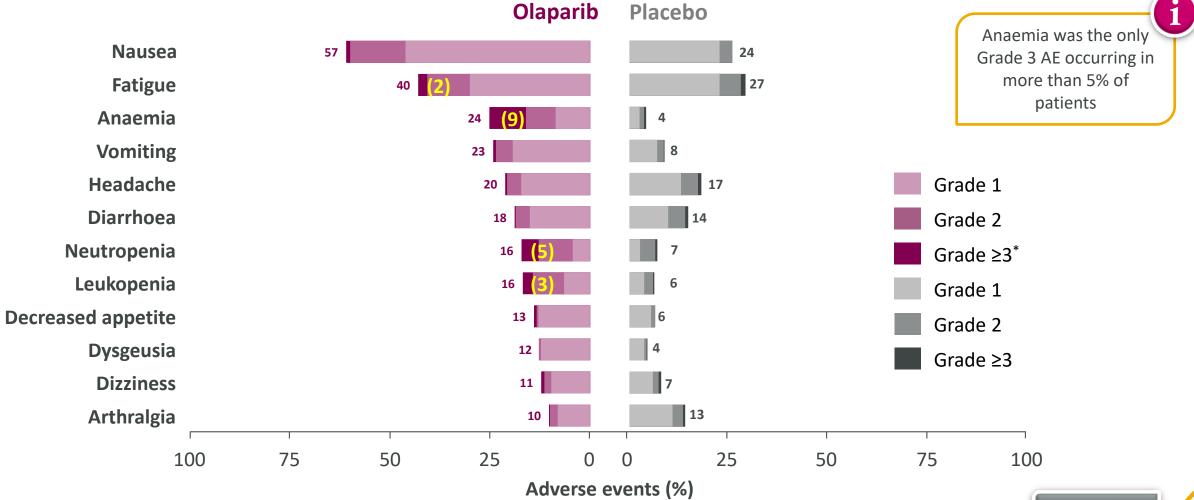






### Adverse events observed were consistent with other trials of olaparib (DCO2)











No new safety signals were observed with longer term follow-up, and there is no evidence of increased risk of MDS, AML

Olaparib n=911

Placebo n=904

AE, n (%)*	DCO3 June 2024 <sup>1</sup>	DCO2 July 2021 <sup>2</sup>	DCO3 June 2024 <sup>1</sup>	DCO2 July 2021 <sup>2</sup>
Any AE <sup>2</sup>	NP	836 (91.8)	NP	758 (83.8)
Serious AE <sup>2</sup>	NP	79 (8.7)	NP	78 (8.6)
AE of special interest at any time*	57 (6.3)	31 (3.4)	84 (9.3)	51 (5.6)
On treatment AESIs <sup>†</sup>	14 (1.5)	14 (1.5)	28 (3.1)	27 (3.0)
AESI > 30 days after last dose	44 (4.8)	18 (2.0)	57 (6.3)	24 (2.7)
MDS/AML	4 (0.4)	2 (0.2)	6 (0.7)	3 (0.3)
Pneumonitis	9 (1.0)	9 (1.0)	13 (1.4)	12 (1.3)
New primary malignancy Breast Ovary/Fallopian tube Pancreas Other	45 (4.9) 26 (2.9) 5 (<1) 3 (<1) 13 (1.4)	21 (2.3) 14 (1.5) 2 (<1) 0 (0) 6 (<1)	68 (7.5) 36 (4.0) 14 (1.5) 1 (<1) 21 (2.3)	36 (4.0) 16 (1.8) 10 (1.1) 1 (<1) 10 (1.1)
Grade ≥3 AE <sup>2</sup>	NP	221 (24.5)	NP	221 (24.5)
Grade 4 AE <sup>‡2,3</sup>	NP	17 (1.9)	NP	17 (1.9)
AE leading to permanent discontinuation of treatment <sup>2</sup>	NP	98 (10.8)	NP	42 (4.6)
AE leading to death § 2,3	5 (<1)	2 (<1)1	10 (1.1)	4 (<1)1







### Blood transfusions were infrequently required\*

Majority of patients who required blood transfusion only had one transfusion

n (%)	Olaparib n=921	Placebo n=915
Patients with at least one blood transfusion With ≥ grade 3 anaemia on treatment With < grade 3 anaemia on treatment No anaemia reported on treatment	53 (5.8) 42 (4.6) 9 (1.0) 2 (0.2)	8 (0.9) 2 (0.2) 2 (0.2) 4 (0.4)
Number of patients with only 1 transfusion	37 (4.1)	6 (0.7)
Number of patients with 2 transfusions	13 (1.4)	2 (0.2)
Number of patients with 3 or more transfusions	3 (0.3)	0 (0.0)



New cancers of special interest were similar between the 2 arms, except for ovarian/fallopian tube that had a higher incidence on the placebo group (DCO3)

n (%)	Olaparib n=911	Placebo n=904
Bilateral mastectomy prior to randomization	339 (36.8)	321 (35.1)
Bilateral mastectomy post randomization	143 (15.5)	163 (17.8)
Patients with contralateral invasive breast cancer*	34	42
Patients with contralateral non-invasive breast cancer	3	4
Bilateral salpingectomy or BSO prior to randomization <sup>†</sup>	186 (20.2)	168 (18.4)
Bilateral salpingectomy or BSO post randomization <sup>‡</sup>	239 (26.0)	249 (27.2)
Patients with new primary ovarian or fallopian tube cancer §	5	14

DCO3 June 2024; median follow-up 6.1 years.



<sup>\*1</sup> patient in the olaparib arm and 1 patient in the placebo arm had BSO prior to new primary ovarian cancer

<sup>\*</sup>Salpingectomy only recorded; olaparib (n = 1), placebo (n = 2); oophorectomy only recorded olaparib (n = 22), placebo (n = 13).

<sup>\*</sup>Salpingectomy only recorded; olaparib (n = 2), placebo (n = 4); oophorectomy only recorded olaparib (n = 14), placebo (n = 13).

<sup>§ 1</sup> patient in the olaparib arm and 1 patient in the placebo arm had BSO prior to new primary ovarian cancer



# The number of reported pregnancies and outcomes were similar between the 2 arms (DCO3)

	Olaparib n=921	Placebo n=915
Number of patients (%)	41 (4.5%)	40 (4.4%)
Number of pregnancies*	51	51
Pregnancy outcomes		
Full Term	32	39
Premature Birth	2	3
Spontaneous Miscarriage	8	6
Termination	6	3
Missing	3	0



\*In the olaparib arm 8 patients had 2 pregnancies and 1 patient had 3 pregnancies. In the placebo arm 7 patients had 2 pregnancies and 1 patient had 5 pregnancies.









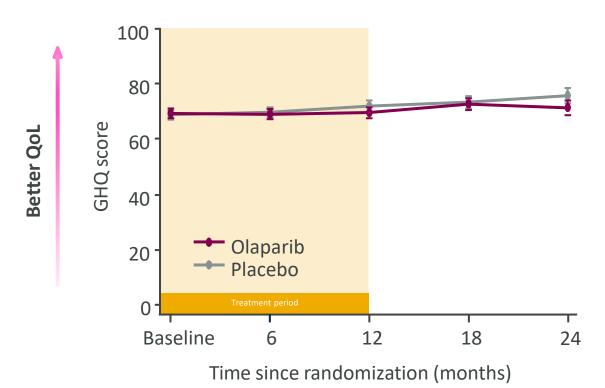
HRQoL



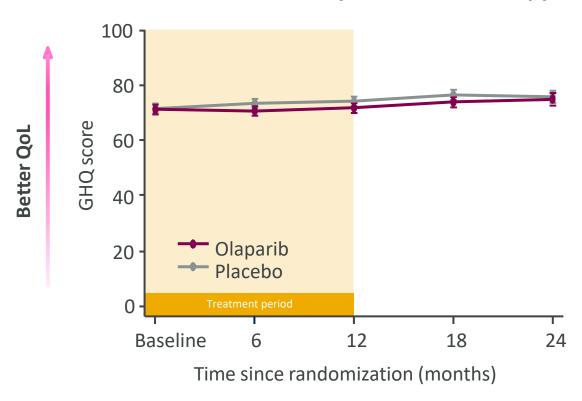


## One year of adjuvant olaparib maintained global health status HRQoL vs. placebo

#### Patients treated with neoadjuvant chemotherapy



#### Patients treated with adjuvant chemotherapy



<sup>1,533</sup> patients were analysed for GHQ; 744 were in the neoadjuvant chemotherapy group and 791 were in the adjuvant chemotherapy group.

\*Global Health Quality (GHQ) score ranges from 0 to 100, higher score indicates better QoL. Adjusted least-square mean responses and 95% CI for time points other than baseline are obtained from mixed model for repeated measures analysis of the GHQ score. The model includes treatment, time and treatment by time interaction, corresponding baseline score, and the baseline score by time interaction.









Guidelines





NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for breast cancer recommends addition of olaparib following adjuvant chemotherapy for certain high-risk, HER2-negative, BC patients with gBRCAm

Olaparib is listed as a **preferred regimen option**<sup>a,b</sup> for HER2-negative breast cancer in certain high-risk patients with germline BRCA1/2 mutations<sup>1</sup>

- Olaparib is recommended as an option for 1 year after neoadjuvant or adjuvant chemotherapy.<sup>a</sup>
- This recommendation is for select TNBC (category 1) and select HR-positive disease (category 2A).a,b

<sup>a</sup>Consider addition of adjuvant olaparib for 1 year after adjuvant chemotherapy for those with germline BRCA1/2 mutations and:

- TNBC, if 1) ≥pT2 or ≥pN1 disease after adjuvant chemotherapy, or 2) residual disease after preoperative chemotherapy (category 2A)
- HR-positive, HER2-negative tumors, if 1) ≥4 positive lymph nodes after adjuvant chemotherapy (category 2A), or 2) residual disease after preoperative therapy and clinical stage, pathological stage, estrogen receptor status, and tumor grade (CPS + EG) score ≥3. (category 2A). Adjuvant olaparib can be used concurrently with endocrine therapy.

<sup>b</sup>Category 2A: Based upon lower-level evidence, there is uniform NCCN consensus that the intervention is appropriate.





# ASCO® Clinical Practice Guidelines: rapid recommendation update to include olaparib as adjuvant therapy on the Management of Hereditary Breast Cancer

Recommendation: For patients with early-stage, HER2-negative breast cancer with high risk of recurrence and germline BRCA1 or BRCA2 pathogenic or likely pathogenic variants, one year of adjuvant olaparib should be offered after completion of (neo)adjuvant chemotherapy and local treatment, including radiation<sup>1</sup>

- For those who had surgery first, adjuvant olaparib is recommended for patients with:
  - TNBC: tumor size> 2 cm, or any involved axillary nodes.
  - HR+ disease: at least four involved axillary lymph nodes.
- For patients who had neoadjuvant chemotherapy, adjuvant olaparib is recommended for patients with:
  - TNBC: any residual cancer;
  - O HR+ disease: residual disease and an estrogen receptor status and tumor grade (CSP+EG) score ≥ 3.





### St Gallen Consensus Guidelines endorse adjuvant olaparib in women with Stage 2 or 3, HER2-negative breast cancer

Over **93%** of 74 international experts **strongly endorsed adjuvant olaparib** for women with Stage II or III, HER2-negative breast cancer meeting the eligibility criteria of the OlympiA study.

64% strongly endorsed olaparib therapy, irrespective of ER status or prior treatment with platinum-based chemotherapy.

95% of panel voters recommended genetic testing of patients meeting the OlympiA study entry criteria.







# OlympiA Conclusions



The OlympiA trial is the first to report the clinical benefits of a PARP inhibitor (olaparib) as an adjuvant treatment in patients with gBRCAm, HER2-negative high risk eBC



With ~9% more patients recurrence free at 3 years, 1 year adjuvant olaparib significantly reduced the risk of recurrence or death by 42% vs. placebo



Adjuvant olaparib resulted in patients living longer, with a 32% reduction in risk of death vs placeob. 3.4% more patients treated with olaparib were alive at 4 years vs. placebo



Consistent with previous studies, the safety profile of olaparib was generally manageable, with the majority of AEs being Grade 1 or 2



Test for gBRCAm at diagnosis to inform treatment decisions and maximise long term outcomes





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