

KEYNOTE – 355 (ESMO UPDATE)

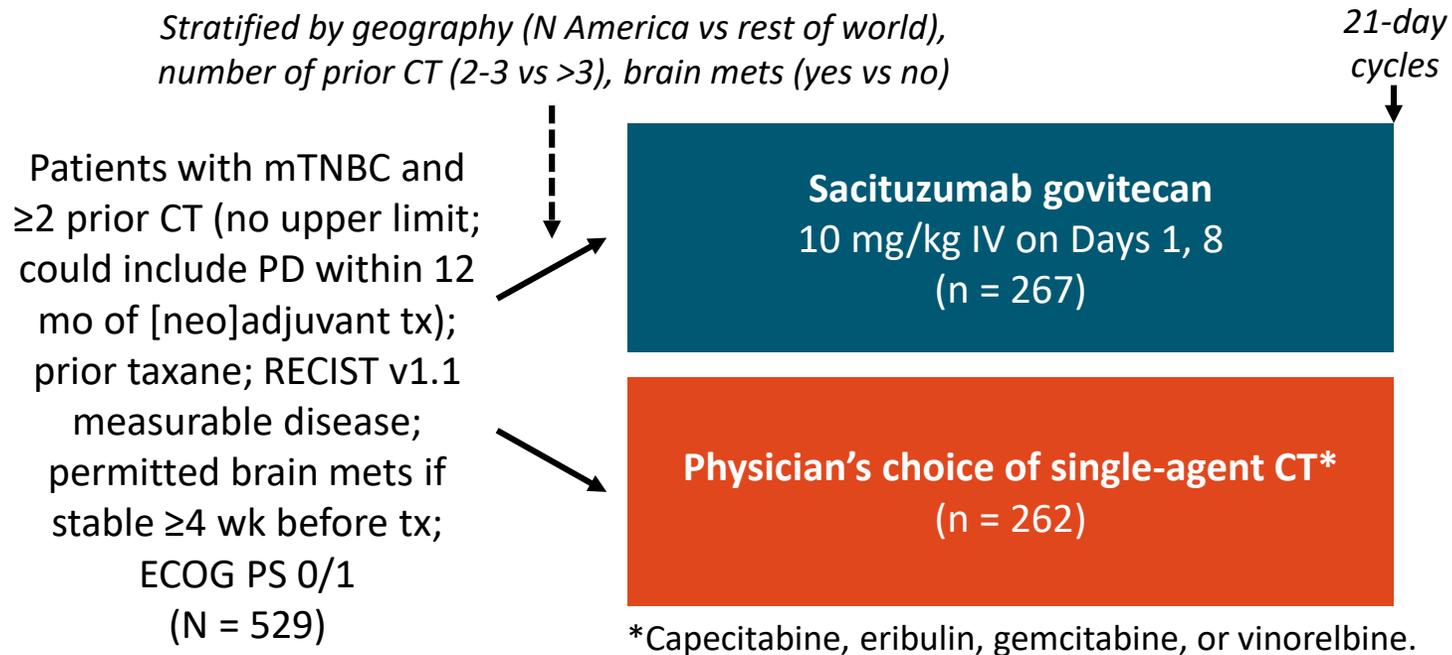
	CPS ≥10		CPS ≥1	
	P + C n = 220	C n = 103	P + C n = 425	C n = 211
OS, mo, median ^a (95% CI)	23.0 (19.0 – 26.3)	16.1 (12.6 – 18.8)	17.6 (15.5 – 19.5)	16.0 (12.8 – 17.4)
OS, HR ^b (95% CI)	0.73 ^c (0.55 – 0.95)		0.86 ^d (0.72 – 1.04)	
PFS, mo, median ^a (95% CI)	9.7 (7.6 – 11.3)	5.6 (5.3 – 7.5)	7.6 (6.6 – 8.0)	5.6 (5.4 – 7.4)
PFS, HR ^b (95% CI)	0.66 (0.50 – 0.88)		0.75 0.62 – 0.91	
ORR, % (95% CI)	52.7 (45.9 – 59.5)	40.8 (31.2 – 50.9)	44.9 (40.1 – 49.8)	38.9 (32.2 – 45.8)

KEYNOTE-355

- Pembrolizumab + chemo approved
 - Chemo backbone: Taxane, Gemcitabine / Carboplatin
 - CPS \geq 10

SACITUZUMAB GOVITECAN – ASCENT TRIAL

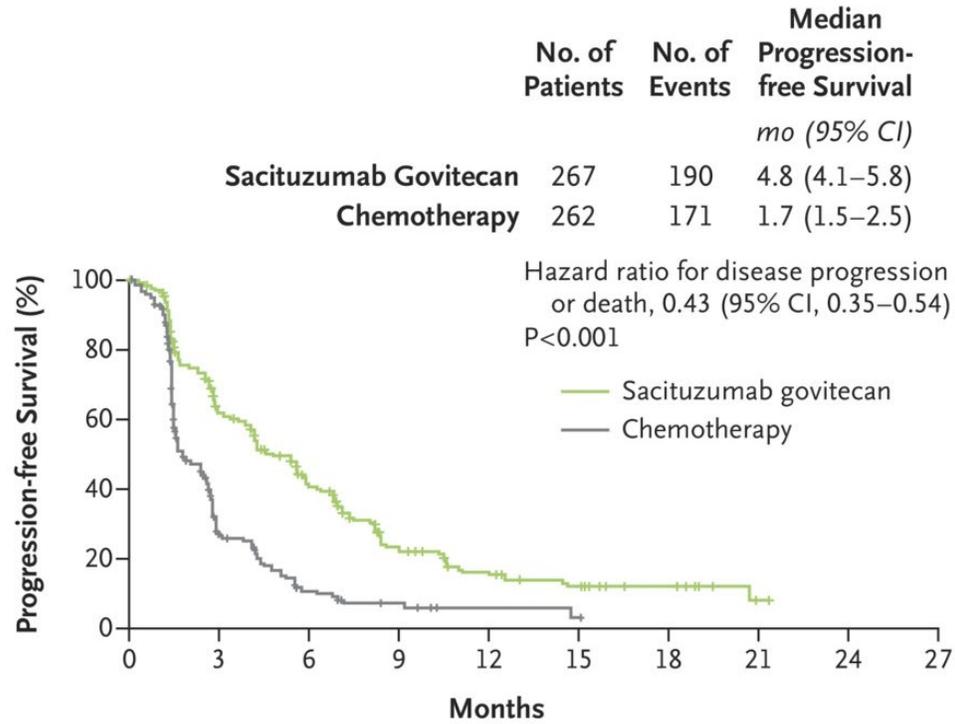
STUDY SCHEMA



- **Primary endpoint:** PFS by BICR in patients without brain mets
- **Secondary endpoints:** investigator-assessed PFS, OS, ORR, DoR, TTR, safety

- **Trial halted early based on efficacy** per unanimous recommendation of DSMC

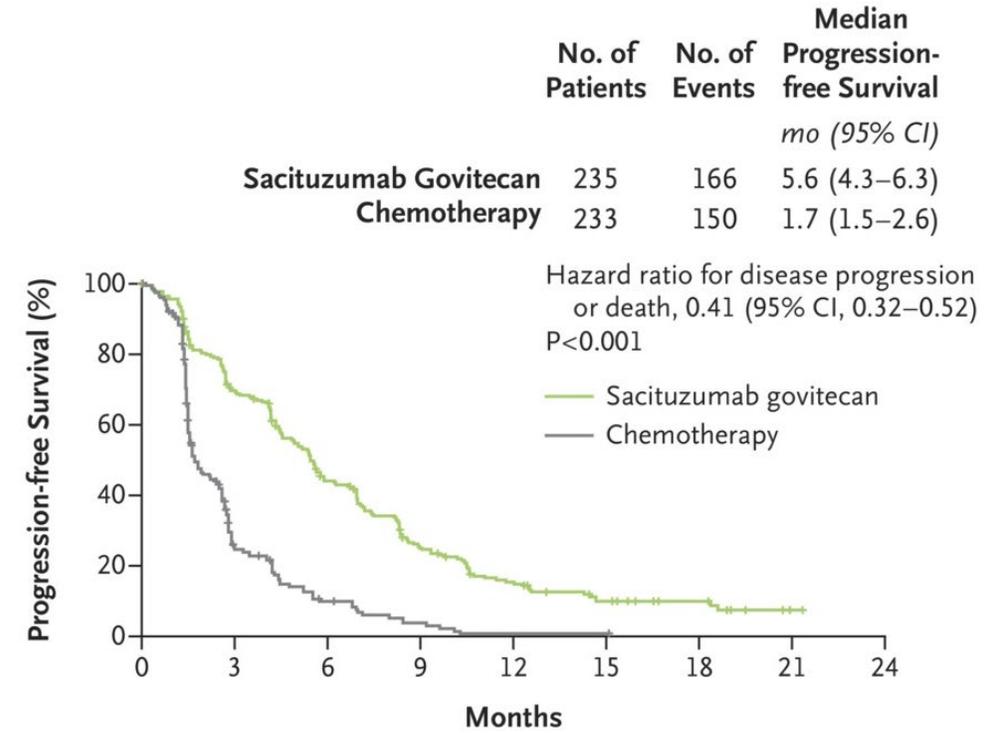
PFS – ENTIRE POPULATION



No. at Risk

Sacituzumab govitecan	267	145	82	38	23	14	8	1
Chemotherapy	262	41	13	6	2	1	0	0

PFS – No Brain Mets



No. at Risk

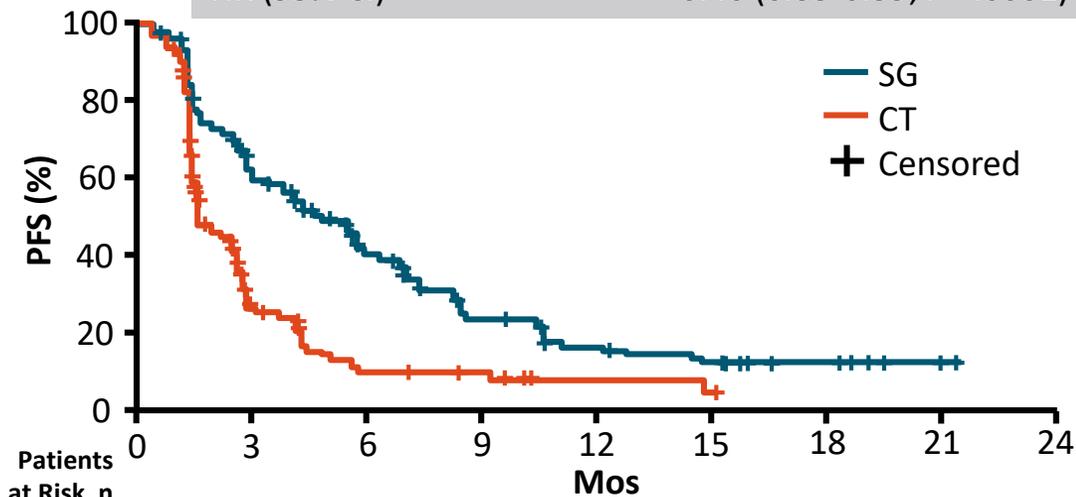
Sacituzumab govitecan	235	154	91	49	28	15	9	1
Chemotherapy	233	39	14	5	1	1	0	0



OHSU

ASCENT Subgroup Analyses: PFS in Patients Without Brain Mets Aged <65 Yr vs ≥65 Yr

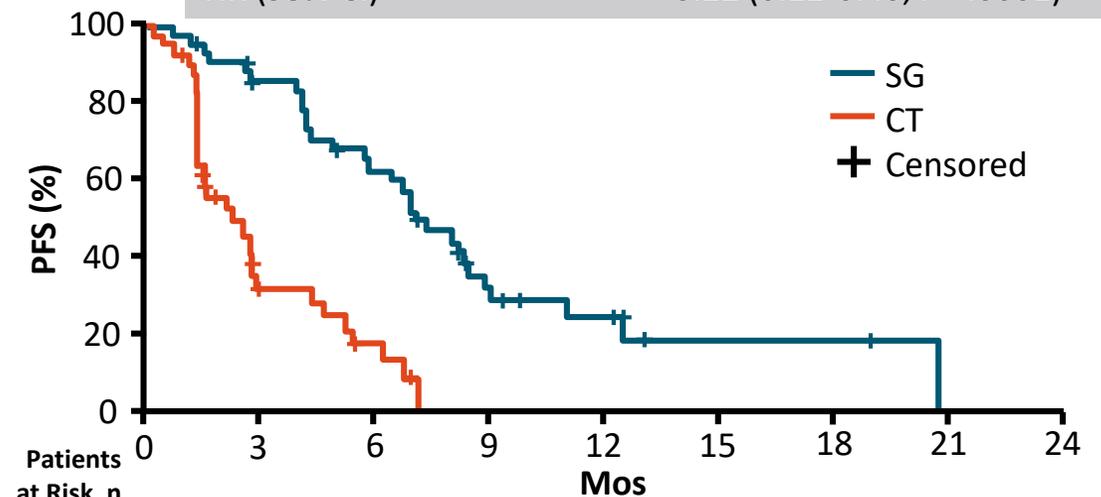
PFS BICR Analysis	Aged <65 Yr	
	SG (n = 191)	CT (n = 187)
No. events	136	117
Median PFS, mo (95% CI)	4.6 (3.7-5.7)	1.7 (1.5-2.5)
HR (95% CI)	0.46 (0.35-0.59; P <.0001)	



Patients at Risk, n

SG	191	179	128	100	94	77	57	43	37	27	26	17	16	13	13	11	7	6	6	4	2	1	0
CT	187	140	59	26	23	12	8	8	7	6	4	2	2	2	2	1	0	0	0	0	0	0	0

PFS BICR Analysis	Aged ≥65 Yr	
	SG (n = 44)	CT (n = 46)
No. events	30	33
Median PFS, mo (95% CI)	7.1 (5.8-8.9)	2.4 (1.4-2.9)
HR (95% CI)	0.22 (0.12-0.40; P <.0001)	

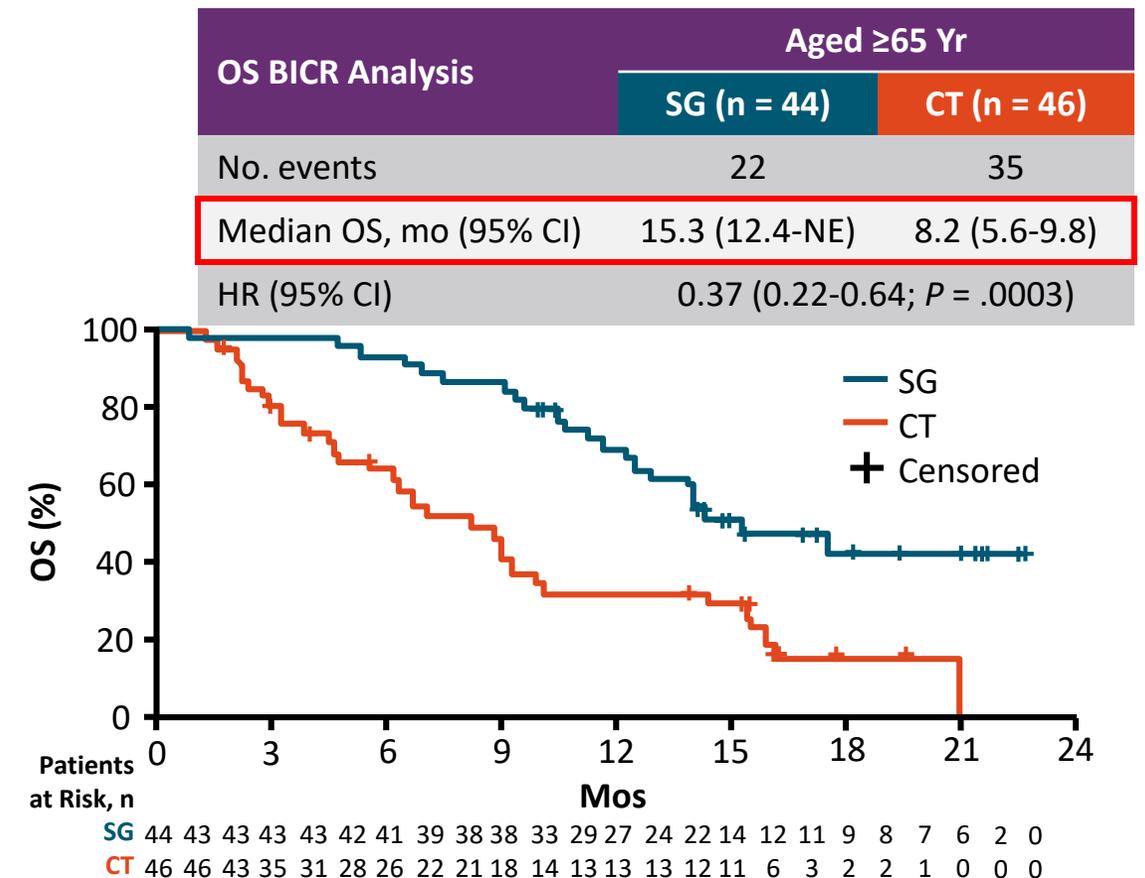
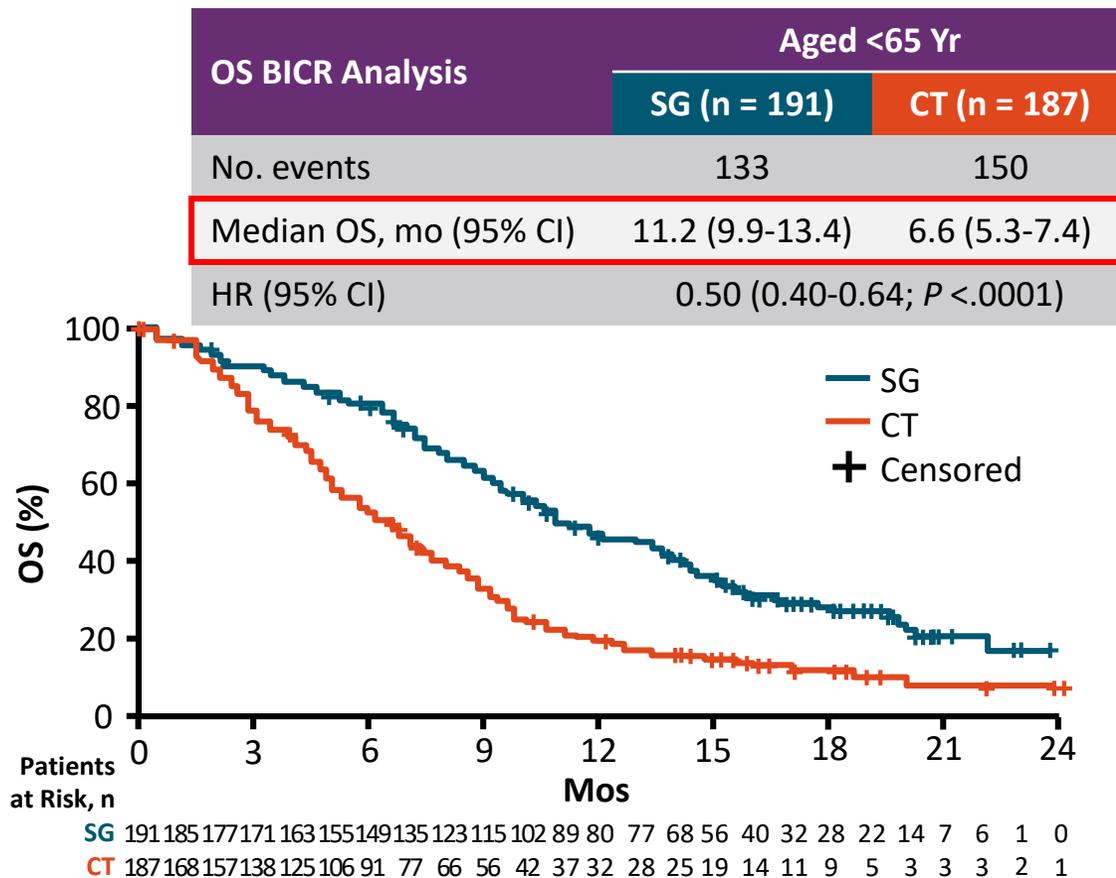


Patients at Risk, n

SG	44	43	38	34	33	27	24	20	17	10	7	7	6	3	2	2	2	2	2	2	1	1	0
CT	46	39	19	9	9	7	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- In those aged ≥65 yr, median PFS benefit with SG vs CT was similar to benefit in overall population (overall population: 5.6 vs 1.7 mo)

ASCENT Subgroup Analyses: OS in Patients Without Brain Mets Aged <65 Yr vs ≥65 Yr



- In those aged ≥65 yr, median OS benefit with SG vs CT was similar to benefit in overall population (overall population: 12.1 vs 6.7 mo)

BRCA-ASSOCIATED CANCER METASTATIC DISEASE

PARP Inhibitors

- Olaparib (OLYMPIAD trial)
- Talazoparib (EMBRACA trial)

OlympiAD: Phase III trial of olaparib monotherapy versus chemotherapy for patients with HER2-negative metastatic breast cancer and a germline *BRCA* mutation

Mark Robson,¹ Seock-Ah Im,² Elzbieta Senkus,³ Binghe Xu,⁴ Susan M Domchek,⁵ Norikazu Masuda,⁶ Suzette Delaloge,⁷ Wei Li,⁸ Nadine Tung,⁹ Anne Armstrong,¹⁰ Wenting Wu,¹¹ Carsten Goessl,¹¹ Sarah Runswick,¹² Pierfranco Conte¹³

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ClinicalTrials.gov identifier: NCT02000622. This study was sponsored by AstraZeneca

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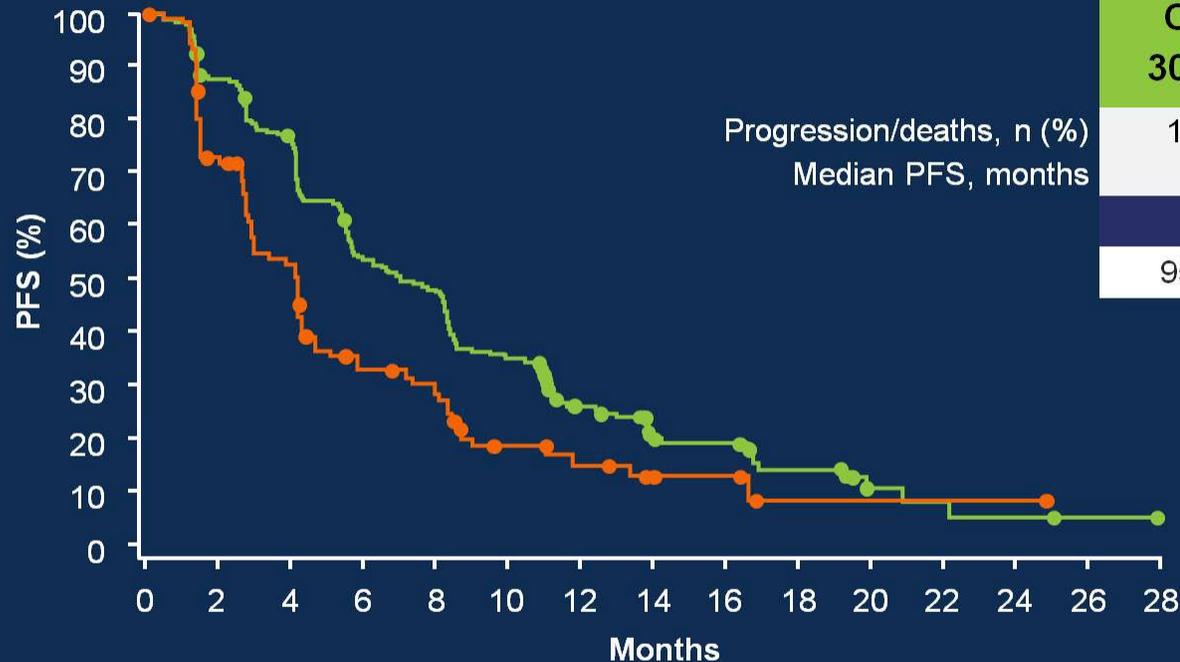
Presented by: Mark Robson, MD

6/4/2017

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Primary endpoint: progression-free survival by BICR



At risk, n	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	
Olaparib 300 mg bd	205	177	154	107	94	69	40	23	21	11	4	3	2	1	0	Olaparib 300 mg bd
Chemotherapy TPC	97	63	44	25	21	11	8	4	4	1	1	1	1	0	0	Chemotherapy TPC

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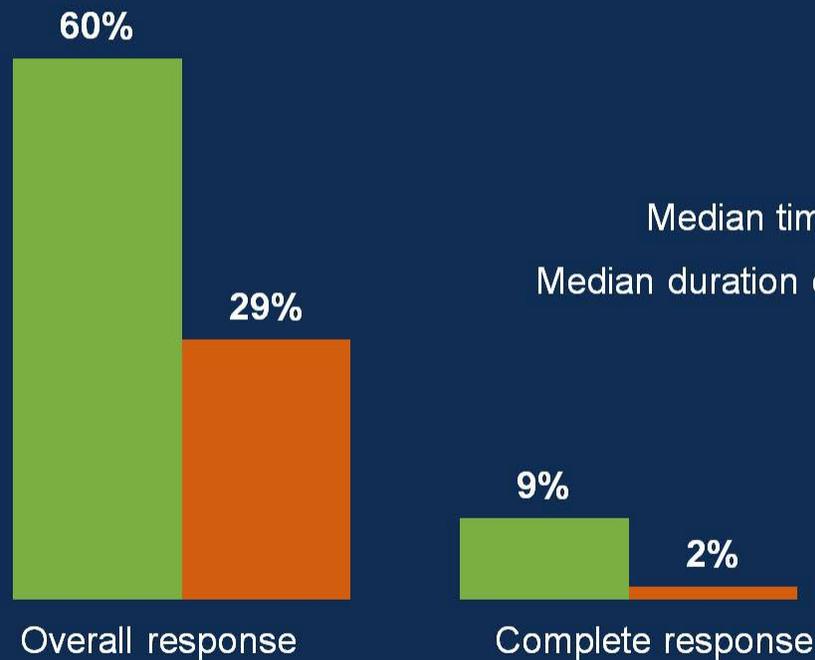
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Objective response by BICR



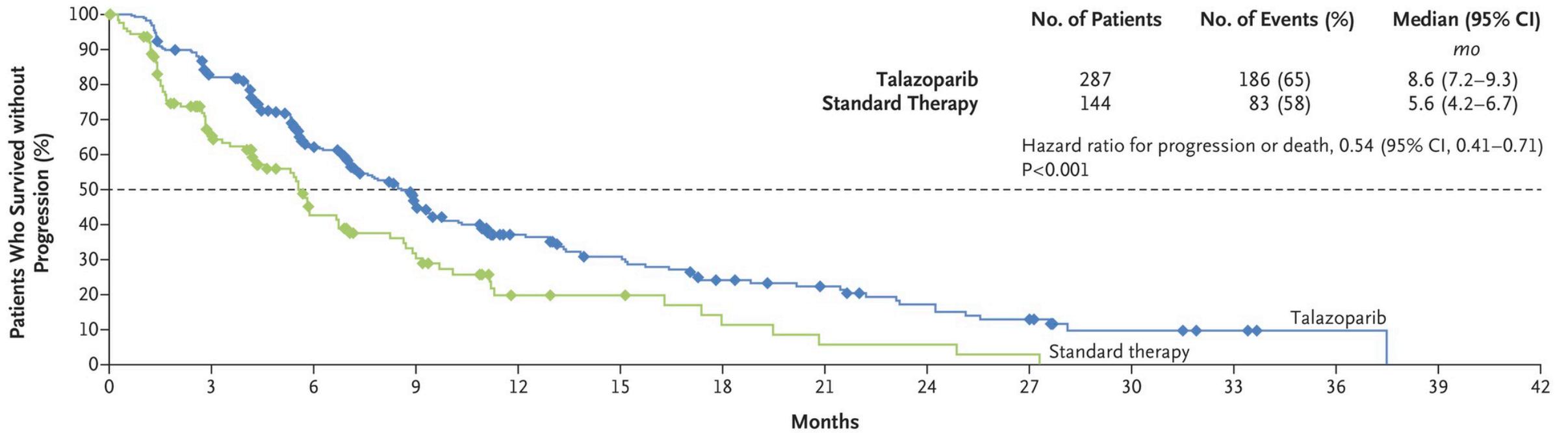
Median time to response, days
 Median duration of response, months

	Olaparib 300 mg bd	Chemotherapy TPC
n	167	66
Median time to response, days	47	45
Median duration of response, months	6.2 (4.6–7.2)	7.1 (2.8–12.2)



Talazoparib in Patients with Advanced Breast Cancer and a Germline *BRCA* Mutation

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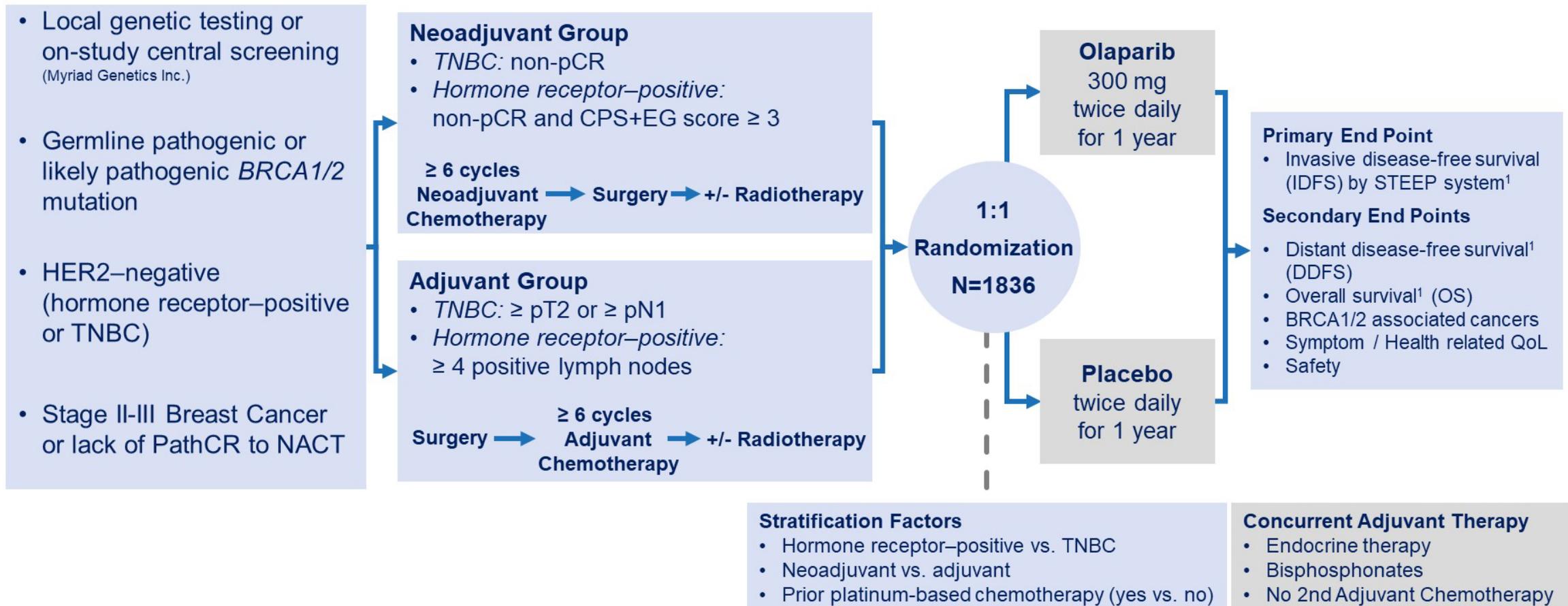
BRCA-ASSOCIATED CANCER EARLY STAGE



OlympiA
Olaparib in Adjuvant
BRCAm breast cancer

A phase III, multicenter, randomized, placebo-controlled trial of adjuvant olaparib after (neo)adjuvant chemotherapy in patients with germline *BRCA1/2* mutations and high-risk HER2-negative early breast cancer

OlympiA: Trial schema



Hormone receptor +ve defined as ER and/or PgR positive (IHC staining $\geq 1\%$)

Triple Negative defined as ER and PgR negative (IHC staining $< 1\%$)

¹Hudis CA, J Clin Oncol 2007

CPS + EG Score

Table 1. Point Assignments for the CPS + EG Staging System

Stage	Points
Clinical stage	
I	0
IIA	0
IIB	1
IIIA	1
IIIB	2
IIIC	2
Pathologic stage	
0	0
I	0
IIA	1
IIB	1
IIIA	1
IIIB	1
IIIC	2
Tumor marker	
ER negative	1
Nuclear grade 3	1

Abbreviations: CPS + EG, clinical-pathologic staging system incorporating ER-negative disease and nuclear grade 3 tumor pathology; ER, estrogen receptor.

<http://www3.mdanderson.org/app/medcalc/index.cfm?pagename=bcnt>

OlympiA: Patient characteristics

	Olaparib (N = 921)	Placebo (N = 915)
Age, years, median (interquartile range)	42 (36–49)	43 (36–50)
BRCA gene affected in germline		
<i>BRCA1</i>	657 (71.3%)	670 (73.2%)
<i>BRCA2</i>	261 (28.3%)	239 (26.1%)
<i>BRCA1</i> and <i>BRCA2</i>	2 (0.2%)	5 (0.5%)
BRCA testing available		
Local and central BRCA result*	550 (59.7%)	540 (59.0%)
Local testing only	130 (14.1%)	141 (15.4%)
Central Myriad testing only	240 (26.0%)	234 (25.6%)
No local or central Myriad testing available	1 (0.1%)	0 (0.0%)
Primary breast cancer surgery		
Mastectomy	698 (75.8%)	673 (73.6%)
Conservative surgery only	223 (24.2%)	240 (26.2%)
Missing	0 (0.0%)	2 (0.2%)

*Local/Central discordant results: Olaparib 12 (2.2%), Placebo 10 (1.9%), Total 22 (2.0%)

OlympiA: Patient characteristics

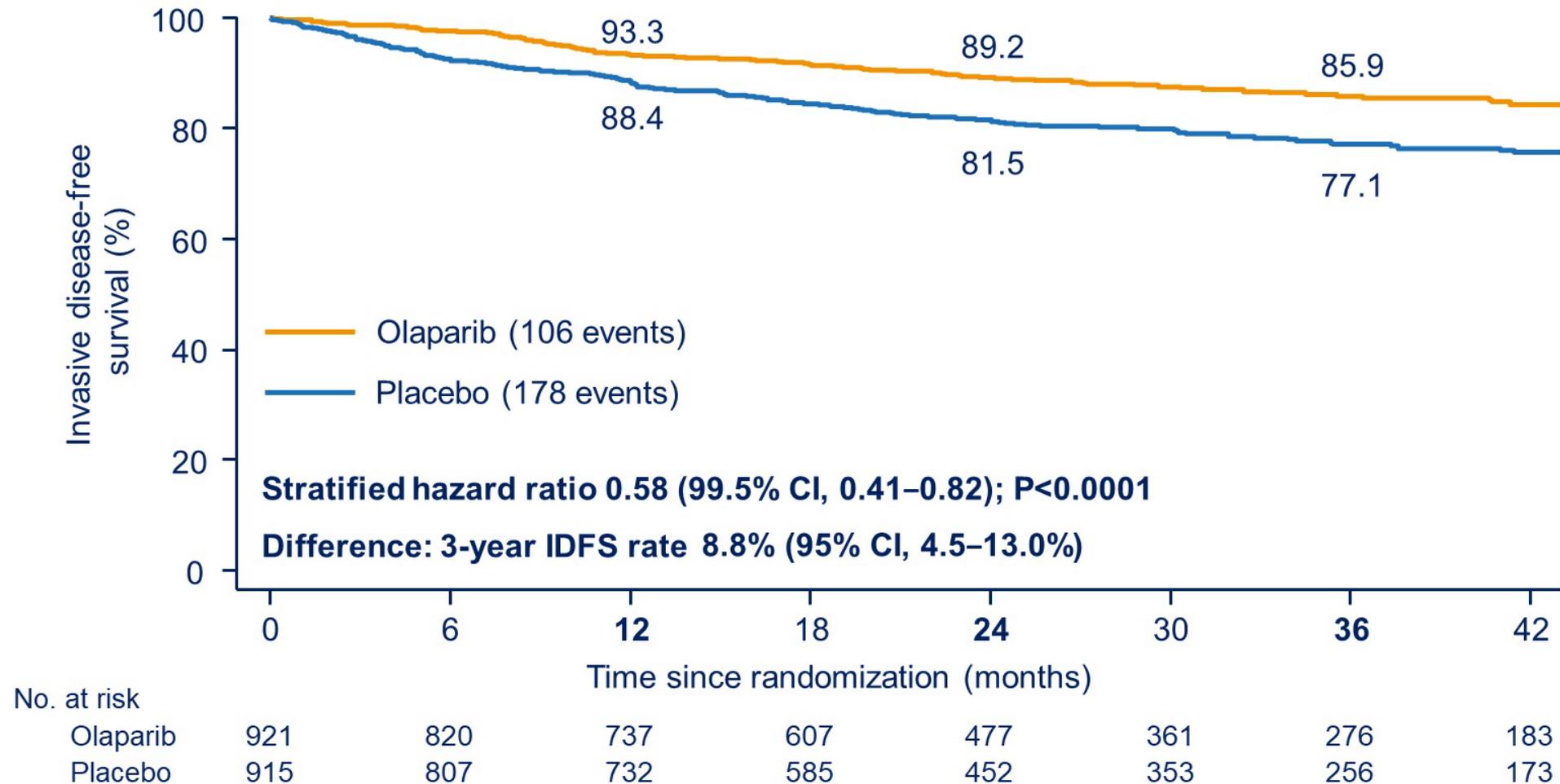
	Olaparib (N = 921)	Placebo (N = 915)
Hormone receptor status*		
Hormone receptor \geq 1% / HER2- [†]	168 (18.2%)	157 (17.2%)
Triple Negative Breast Cancer [‡]	751 (81.5%)	758 (82.8%)
Menopausal status (female only)		
Premenopausal	572/919 (62.2%)	553/911 (60.7%)
Postmenopausal	347/919 (37.8%)	358/911 (39.3%)
Prior chemotherapy		
Adjuvant (ACT)	461 (50.1%)	455 (49.7%)
Neoadjuvant (NACT)	460 (49.9%)	460 (50.3%)
Anthracycline and taxane regimen	871 (94.6%)	849 (92.8%)
Neo(adjuvant) platinum-based therapy	247 (26.8%)	239 (26.1%)
Concurrent endocrine therapy (HR-positive only)	146/168 (86.9%)	142/157 (90.4%)

*Defined by local test results

[†]Following a protocol amended in 2015, the first patient with hormone receptor-positive disease was enrolled in December 2015

[‡]Two patients are excluded from the summary of the triple-negative breast cancer subset because they do not have confirmed HER2-negative status

OlympiA: Invasive disease-free survival (ITT)



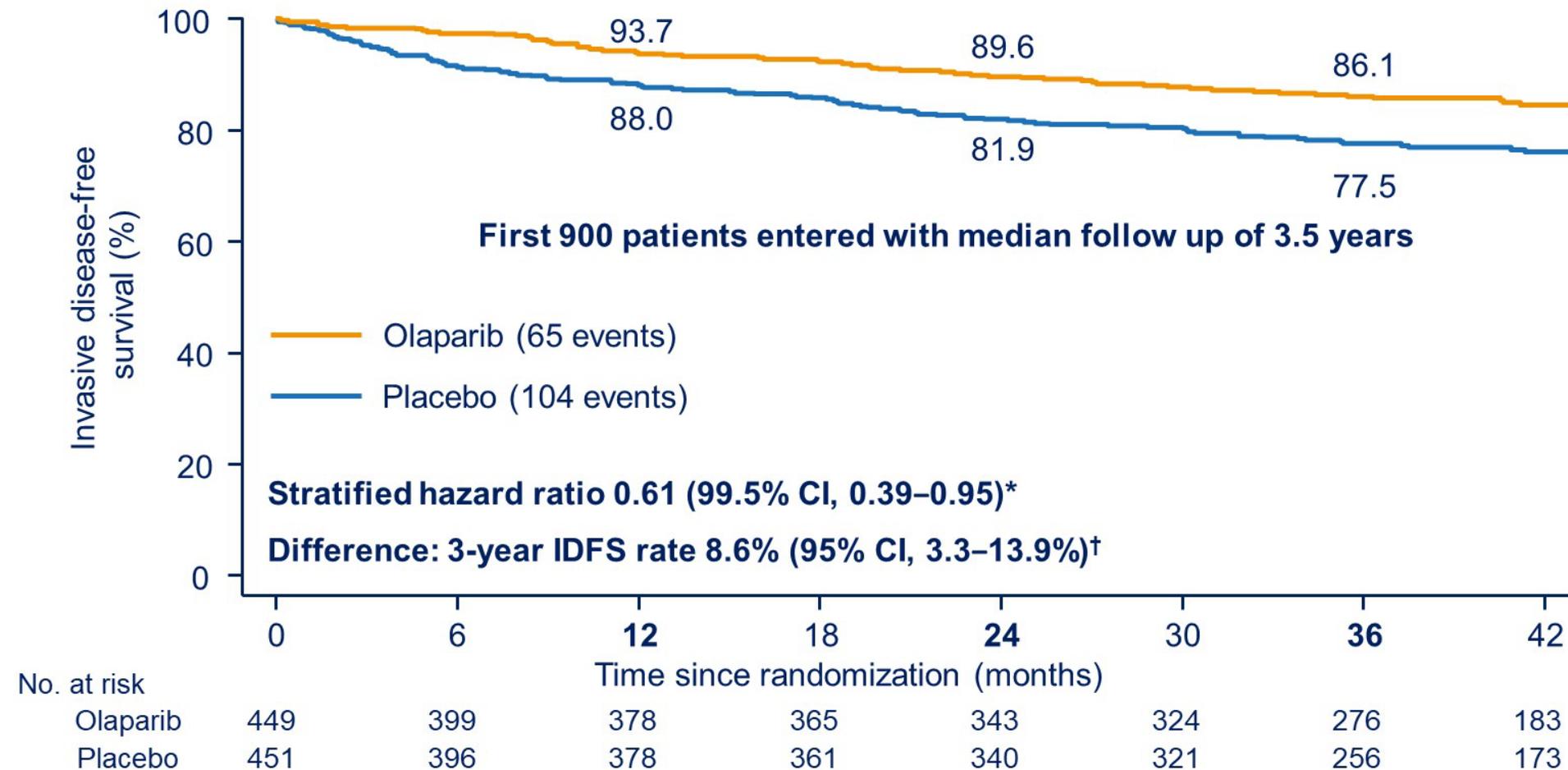
OlympiA: Type of first IDFS event

	Olaparib (N = 921)	Placebo (N = 915)
Number of patients with a first IDFS event	106 (11.5%)	178 (19.5%)
Distant recurrence	72 (7.8%)	120 (13.1%)
Distant CNS Recurrence	22 (2.4%)	36 (3.9%)
Distant excluding CNS Recurrence	50 (5.4%)	84 (9.2%)
Regional (Ipsilateral) Recurrence	6 (0.7%)	14 (1.5%)
Local (Ipsilateral) Recurrence	7 (0.8%)	11 (1.2%)
Contralateral invasive breast cancer	8 (0.9%)	12 (1.3%)
Second primary non-breast malignancies	11 (1.2%)	21 (2.3%)
Ovarian	1 (0.1%)	4 (0.4%)
Peritoneal	0 (0.0%)	0 (0.0%)
Fallopian tube	1 (0.1%)	4 (0.4%)
Other	9 (1.0%)	13 (1.4%)
Deaths without a prior IDFS event*	2 (0.2%)	0 (0.0%)

There can only be one first IDFS event per patient

*1 death due to cardiac arrest and 1 patient with unknown cause of death

OlympiA: Invasive disease-free survival (mature cohort)



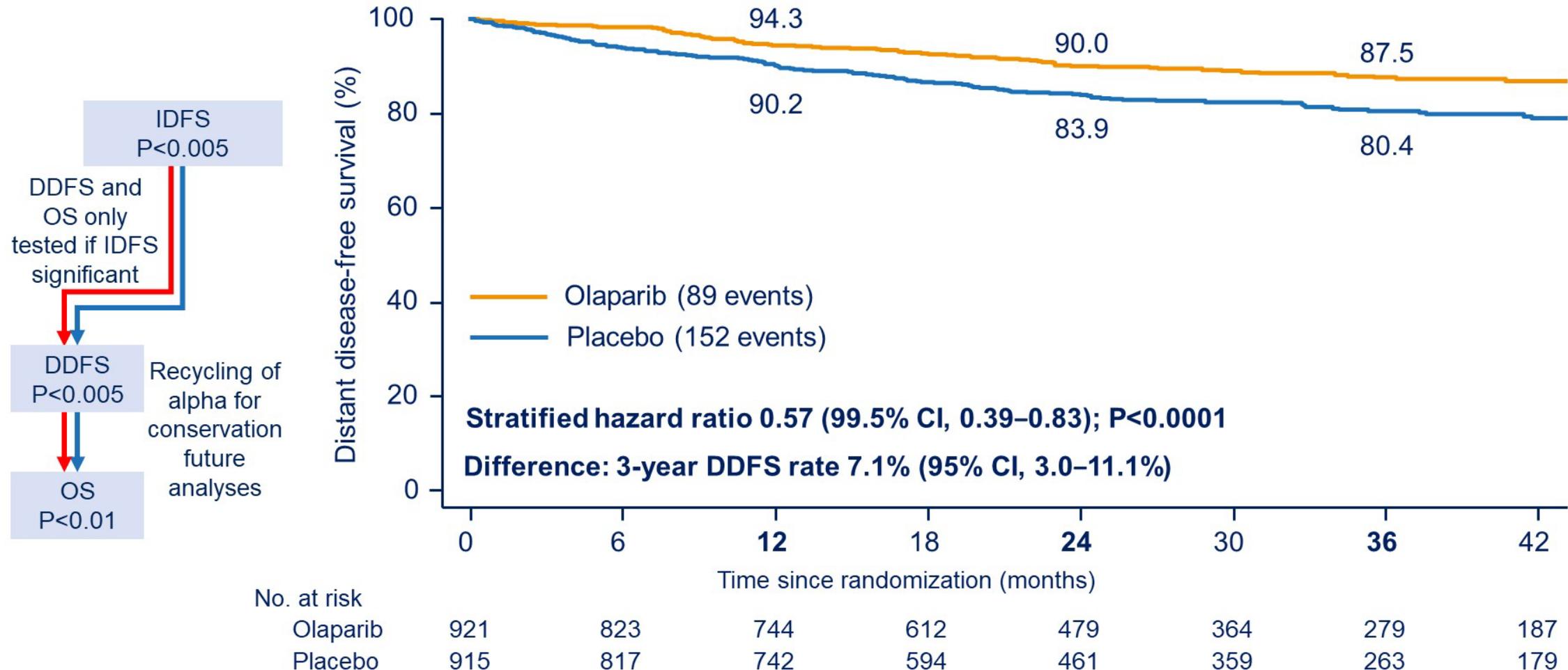
*Stratified Cox proportional hazards model, †Kaplan–Meier estimates

Presented By: Andrew Tutt MB ChB PhD FMedSci
The Institute of Cancer Research and Kings College London

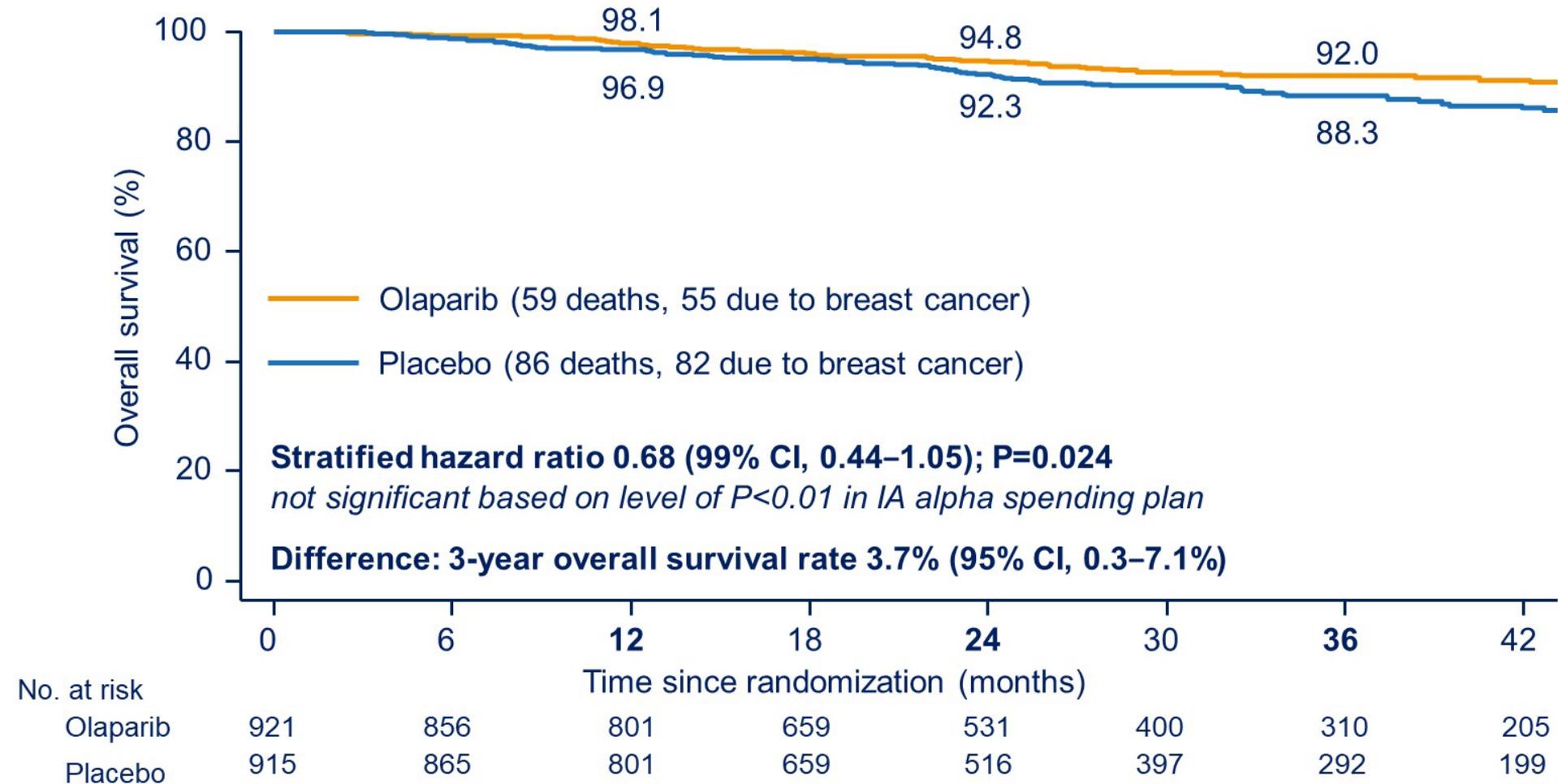
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OlympiA: Distant disease-free survival



OlympiA: Overall survival



OlympiA: Summary of adverse events

	Olaparib (N = 911)	Placebo (N = 904)
Any adverse event	835 (91.7%)	753 (83.3%)
Serious adverse event (SAE)	79 (8.7%)	76 (8.4%)
Adverse event of special interest	30 (3.3%)	46 (5.1%)
MDS/AML	2 (0.2%)	3 (0.3%)
Pneumonitis	9 (1.0%)	11 (1.2%)
New primary malignancy	20 (2.2%)	32 (3.5%)
Grade ≥ 3 adverse event	221 (24.3%)	102 (11.3%)
Grade 4 adverse event	17 (1.9%)	4 (0.4%)
Adverse event leading to permanent discontinuation of treatment*	90 (9.9%)	38 (4.2%)
Adverse event leading to death [†]	1 (0.1%)	2 (0.2%)

Includes adverse events with an onset date on or after the first dose date and up to and including 30 days following date of last dose of study medication. AML denotes acute myeloid leukemia; MDS myelodysplastic syndrome

*Adverse events leading to permanent discontinuation of treatment in the olaparib group that occurring in > 1% were; nausea, anemia and fatigue

†Adverse events leading to death are cardiac arrest (olaparib, n = 1), AML (placebo, n = 1), and ovarian cancer (placebo, n = 1)

OLYMPIA: Conclusions

- Adjuvant Olaparib FDA Approved 3/2022
 - One year of therapy
- Effective / Well tolerated

OLYMPIA: Questions?

- TNBC with residual disease
 - Capecitabine or Olaparib or Sequence?
 - Keep Pembrolizumab with Olaparib?
- HR+ Eligible Patients
 - Calculate CPS + EG score
 - Abemaciclib or Olaparib?

THANK YOU

Questions?

SUPPLEMENTAL SLIDES?

- GeparNuevo
- Impassion 031