



Associazione Italiana di Oncologia Medica
SEZIONE REGIONE LAZIO

The Best of the Year 2018



ROMA - 19 dicembre 2018

NH Collection Vittorio Veneto



IRE

ISTITUTO NAZIONALE TUMORI

REGINA ELENA

ISTITUTO DI RICOVERO E CURA A CARATTERE SCIENTIFICO

Tumori Ginecologici THE BEST OF 2018

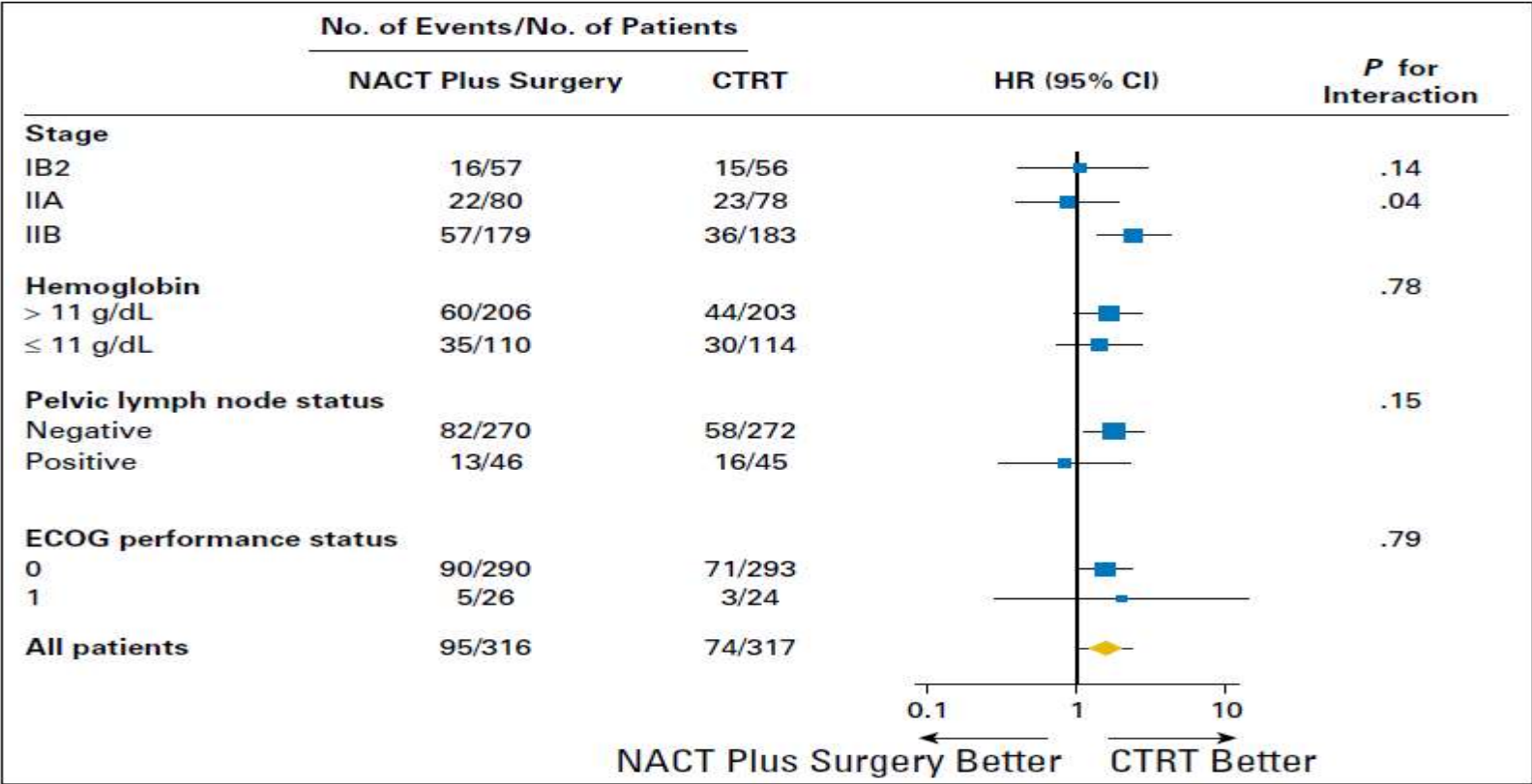
**Antonella Savarese
Oncologia Medica 1**

**Istituto Nazionale Tumori
«Regina Elena» - Roma**

Neoadjuvant Chemotherapy Followed by Radical Surgery Versus Concomitant Chemotherapy and Radiotherapy in Patients With Stage IB2, IIA, or IIB Squamous Cervical Cancer: A Randomized Controlled Trial

Sudeep Gupta, Amita Maheshwari, Pallavi Parab, Umesh Mahantshetty, Rohini Hawaldar, Supriya Sastri (Chopra), Rajendra Kerkar, Reena Engineer, Hemant Tongaonkar, Jaya Ghosh, Seema Gulia, Neha Kumar, T. Surappa Shylasree, Renuka Gawade, Yogesh Kembhavi, Madhuri Gaikar, Santosh Menon, Meenakshi Thakur, Shyam Shrivastava, and Rajendra Badwe

Sep 2003 – Feb 2015 / 635 pts, accrual not reached / median f-u time 58.5 mos

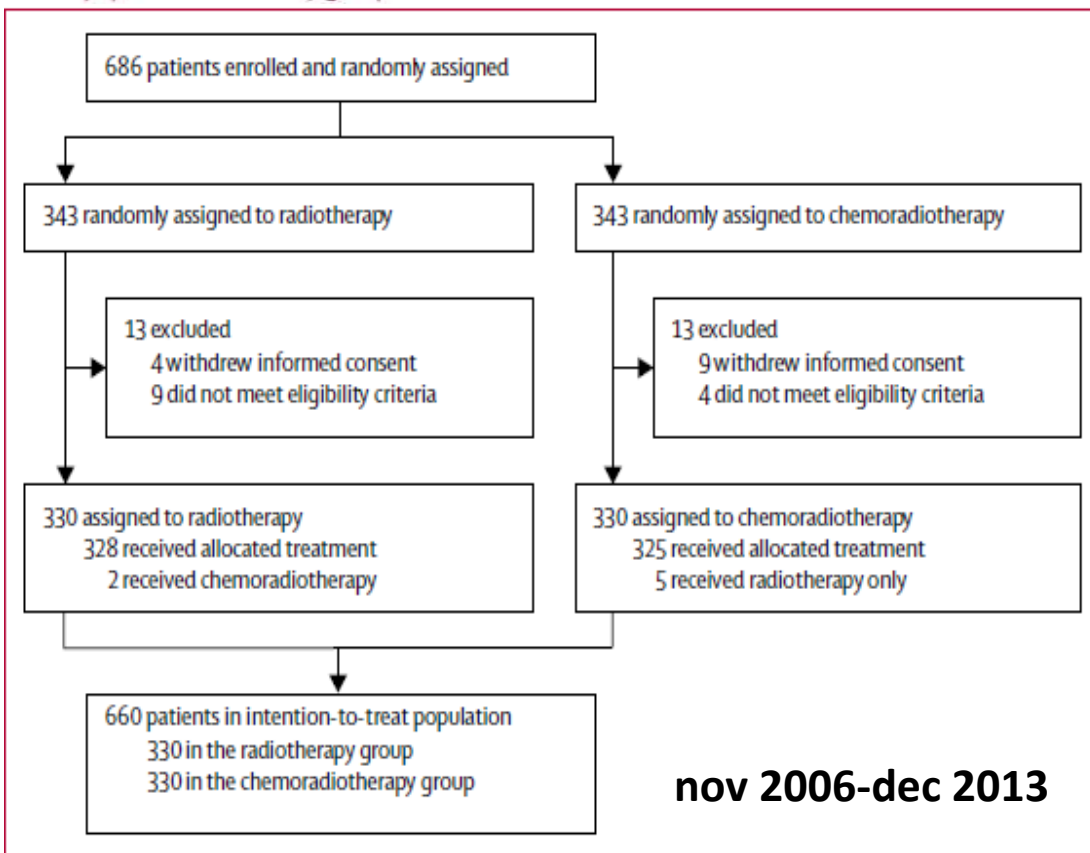


Adjuvant chemoradiotherapy versus radiotherapy alone for women with high-risk endometrial cancer (PORTEC-3): final results of an international, open-label, multicentre, randomised, phase 3 trial



Lancet Oncol 2018; 19: 295–309

Stephanie M de Boer, Melanie E Powell, Linda Mileschkin, Dionyssios Katsaros, Paul Bessette, Christine Haie-Meder, Petronella B Ottevanger, Jonathan A Ledermann, Pearly Khaw, Alessandro Colombo, Anthony Fyles, Marie-Helene Baron, Ina M Jürgenliemk-Schulz, Henry C Kitchener, Hans W Nijman, Godfrey Wilson, Susan Brooks, Silvestro Carinelli, Diane Provencher, Chantal Hanzen, Ludy C HW Lutgens, Vincent TH BM Smit, Naveena Singh, Viet Do, Romerai D'Amico, Remi A Nout, Amanda Feeney, Karen W Verhoeven-Adema, Hein Putter, Carien L Creutzberg, on behalf of the PORTEC study group*



nov 2006-dec 2013

Pts characteristics:

Endometrioid stage I G3 LVSI+, II, III

Serous /clear cell stage I-III

Age >18

PS 0-2

Treatment plan:

✓ External pelvic RT 48.6 Gy in 5 w

✓ External pelvic RT 48.6 Gy in 5 w+
DDP 50mg/m² w 1 and 4 of RT
followed by

4 cycles of
CBDCA AUC5 + Taxol 175 mg/m² q21

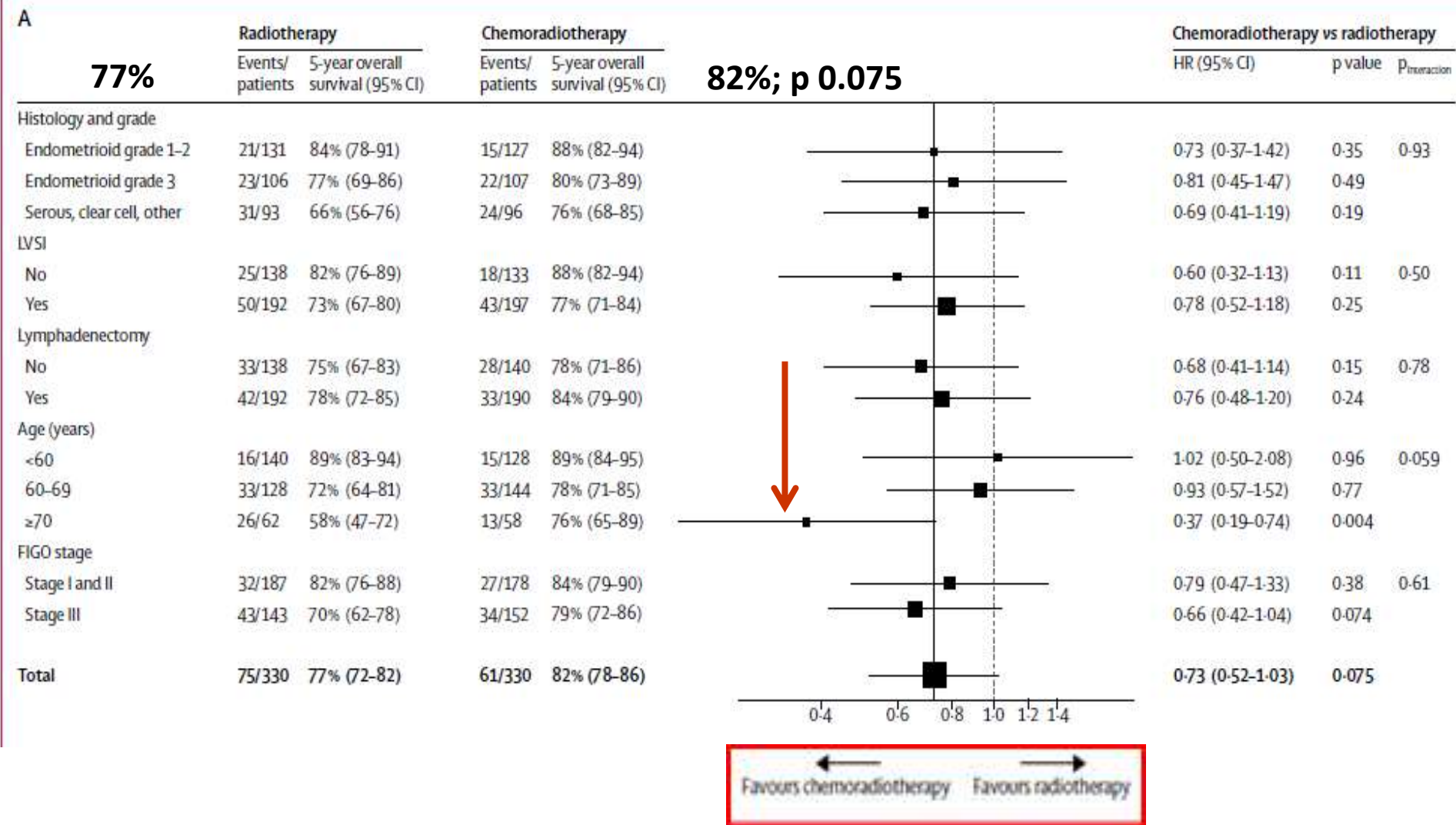


PORTEC 3: Evidence before this study

- Jan 1980-Dec 2006: 6 randomized trials comparing chemotherapy vs radiotherapy in high risk or advanced endometrial cancer: no difference in OS
- Because of increased pelvic relapse with CT alone, combination of CT + RT has been explored
- Since 2006 (PORTEC-3 starts) three randomized trials of RT alone vs CT+RT have been published, with no difference in OS

PORTEC 3

Forest plot of multivariable analysis for overall survival



PORTEC 3

Forest plot of multivariable analysis for failure-free survival

B

68.6%%

Radiotherapy

Events/
patients 5-year failure-free
survival (95% CI)

Chemoradiotherapy

Events/
patients 5-year failure-free
survival (95% CI)

75.5% ; p 0.022

Chemoradiotherapy vs radiotherapy

HR (95% CI) pvalue $p_{interaction}$

Histology and grade

Endometrioid grade 1-2

32/131 75% (66-82)

26/127 82% (74-88)

0.74 (0.44-1.26) 0.27 0.79

Endometrioid grade 3

32/106 69% (59-77)

28/106 74% (64-81)

0.73 (0.44-1.22) 0.23

Serous, clear cell, other

39/93 59% (48-68)

29/93 69% (58-77)

0.60 (0.37-0.97) 0.036

LVSI

No

32/138 77% (68-83)

30/133 78% (69-84)

0.80 (0.48-1.33) 0.39 0.45

Yes

71/192 63% (55-69)

53/197 74% (67-80)

0.63 (0.44-0.90) 0.012

Lymphadenectomy

No

46/138 67% (58-74)

35/140 76% (68-83)

0.58 (0.37-0.91) 0.016 0.34

Yes

57/192 70% (63-76)

48/190 75% (68-81)

0.77 (0.52-1.14) 0.19

Age (years)

<60

26/140 81% (73-87)

28/128 81% (72-87)

1.17 (0.68-2.00) 0.57 0.012

60-69

47/128 62% (53-71)

40/144 71% (62-79)

0.69 (0.45-1.06) 0.094

≥70

30/62 53% (40-65)

15/58 75% (61-85)

0.33 (0.18-0.63) <0.001

FIGO stage

Stage I and II

43/187 77% (70-82)

35/178 81% (74-86)

0.77 (0.49-1.21) 0.26 0.47

Stage III

60/143 58% (49-66)

48/152 69% (61-76)

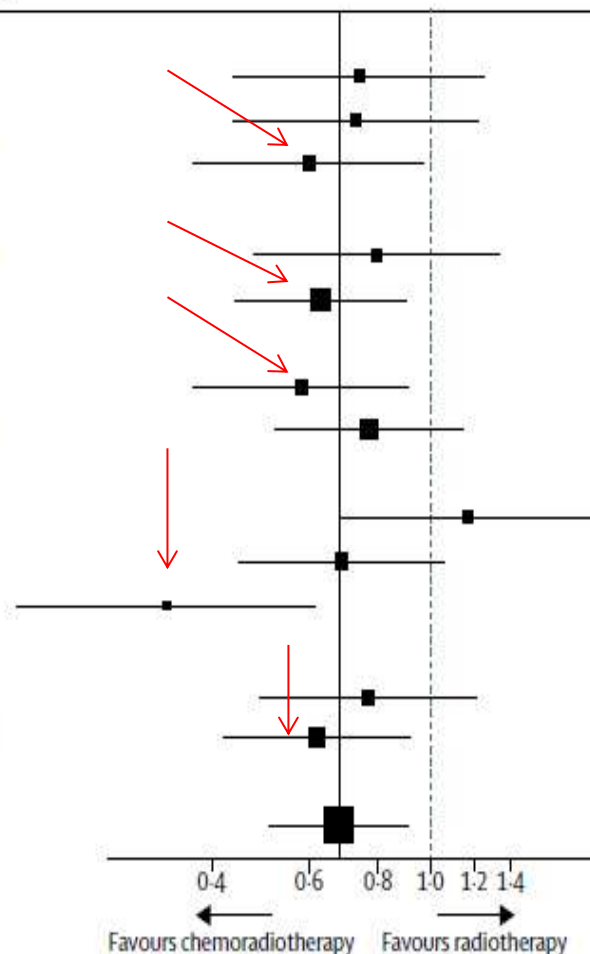
0.62 (0.42-0.91) 0.014

Total

103/330 69% (63-73)

83/330 76% (70-80)

0.68 (0.51-0.91) 0.010



GRADE 3 Toxicity: radiotherapy alone events 12%
chemotherapy + radiotherapy 60% (p <0.001)



Linee guida

**NEOPLASIE DELL'UTERO:
ENDOMETRIO E CERVICE**

2018

Qualità Globale delle evidenze GRADE	Raccomandazione clinica	Forza della raccomandazione clinica
Bassa	<p><i>In caso di malattia ad alto rischio di metastasi la chemioterapia può essere considerata in associazione con la radioterapia.</i></p> <p><i>* La valutazione complessiva della qualità delle evidenze ad oggi disponibili circa "l'efficacia della chemioterapia in associazione con la radioterapia in pazienti ad alto rischio di recidiva", la valutazione del rapporto tra i benefici ed i rischi correlati e la formulazione della raccomandazione relativa al quesito posto, sono state analizzate secondo metodologia GRADE (vedere capitolo 15).</i></p>	Positiva debole

Qualità dell'evidenza SIGN	Raccomandazione clinica	Forza della raccomandazione clinica
A	La chemioterapia può essere presa in considerazione in aggiunta alla radioterapia nelle pazienti ad alto rischio riducendo il rischio di recidiva pur non essendo in grado di migliorare la sopravvivenza complessiva. Le pazienti dovrebbero essere informate sulla non conclusività delle evidenze (5-8)	Positiva debole

LA CHEMIOIPERTERMIA I.P. NEL TRATTAMENTO DEL CA. OVARICO

ULTERIORE OPZIONE PER LA CHIRURGIA SECONDARIA

- ▶ LA **CHEMIOIPERTERMIA I.P.** HA UNO SPAZIO TERAPEUTICO IN PZ. CON RECIDIVA PLATINO SENSIBILE IN COMBINAZIONE CON

CHIRURGIA CITORIDUTTIVA OTTIMALE
(livello II di evidenza)

(1° italian consensus conference on HIPEC, 2015)

ORIGINAL ARTICLE

Hyperthermic Intraperitoneal Chemotherapy
in Ovarian Cancer

W.J. van Driel, S.N. Koole, K. Sikorska, J.H. Schagen van Leeuwen,
H.W.R. Schreuder, R.H.M. Hermans, I.H.J.T. de Hingh, J. van der Velden,
H.J. Arts, L.F.A.G. Massuger, A.G.J. Aalbers, V.J. Verwaal, J.M. Kieffer,
K.K. Van de Vijver, H. van Tinteren, N.K. Aaronson, and G.S. Sonke

245 pts randomized
(2007-2016)

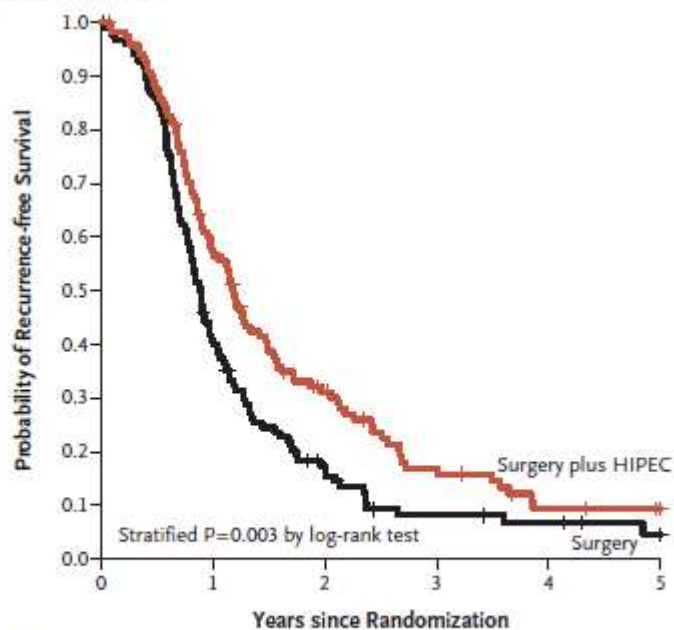
All histologies

HIPEC arm:

CBDCA+Taxol q 21 x3 cycles
before surgery +HIPEC (DDP
100 mg/m² IP followed by
CBDCA+Taxol q 21 x3 cycles

Median f-u 4.7 y

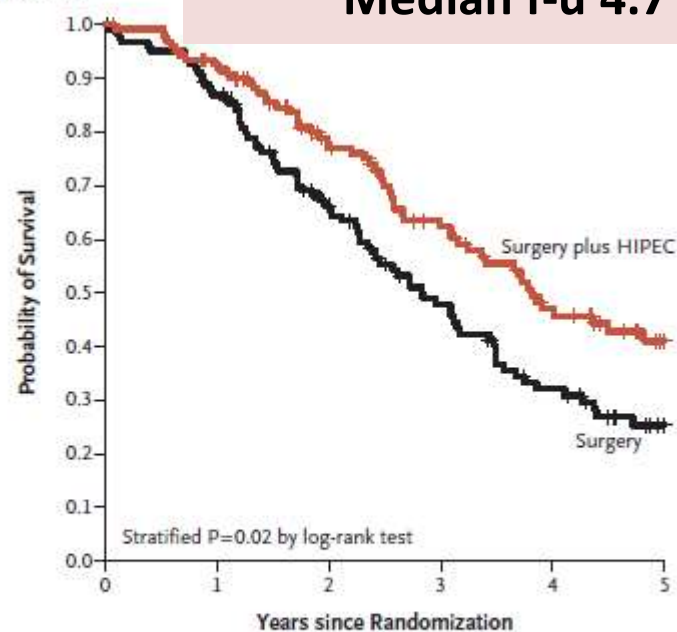
A Recurrence-free Survival



No. at Risk

Surgery	123	48	18	7	5	2
Surgery plus HIPEC	122	67	31	15	7	5

B Overall Survival



No. at Risk

Surgery	123	103	70	44	27	12
Surgery plus HIPEC	122	108	79	56	37	20

Trabectedin plus PLD in patients with platinum-sensitive recurrent ovarian cancer (PSROC): first results of an observational, prospective study (NIMES-ROC)



Trabectedin plus pegylated liposomal doxorubicin (PLD) in patients with platinum-sensitive recurrent ovarian cancer (PSROC): first results of an observational, prospective study (NIMES-ROC)

Abstract: #4449

Sandro Pignata¹, Giovanni Scambia², Teresita Mazzei³, Mikel Arruti Barbia⁴, Emanuele Nagtner⁵, Luis Miguel de Sando⁶

¹Istituto Nazionale Tumori Pascale – I.R.C.C.S. – Fondazione Pascale, Napoli, Italy; ²Polisiclinico Universitario Agostino Gemelli, Università Cattolica Di Roma, Roma, Italy; ³Azienda Ospedaliero-Universitaria Careggi, Firenze, Italy; ⁴Hospital de Galdakao, Galdakao, Spain; ⁵Istituto Oncologico Giovanni Paolo II, Bari, Italy; ⁶Hospital De León, León, Spain

BACKGROUND

Based on the results from a phase III randomized OVA-301 study in 2009 trabectedin plus PLD was approved in Europe for the treatment of patients with platinum-sensitive recurrent ovarian cancer (PSROC). AIMS: The prospective, non-interventional, European phase IV NIMES-ROC trial evaluates the use of trabectedin plus PLD in adult women with PSROC in a routine real-life clinical practice, given according to the marketing authorization and standard local clinical practice, regardless of prior use of antiangiogenics.

METHODS

Herein we present the preliminary results of an interim analysis of the data collected with the cut-off for analysis of 27 December 2017.

To date we have collected and analyzed data from 155 adult patients with PSROC treated according to standard local clinical practice in 50 centers across Italy, Spain, Germany, France, Belgium with trabectedin plus PLD within the approved schedule (PLD 30 mg/m² i.v. immediately followed by 1.1 mg/m² trabectedin as 3-h i.v. infusion every 3 weeks). All the data of the cut-off 42 patients are still on treatment (25 patients [28.4%] pretreated with an antiangiogenic drug and 17 [34.3%] not pretreated).

Primary objective:

Assessment of the progression-free survival (PFS) according to investigator criteria, overall and by previous usage of antiangiogenic drug.

Secondary objectives:

Collect "real-life" clinical data of:

• Objective response rate (ORR) and disease control rate (DCR)

• Overall survival (OS)

• Evaluation of the patient's performance status (PS)

• Evaluate treatment exposure, treatment duration and time to next treatment

• Safety of the combination

RESULTS (INTERIM ANALYSIS)

DEMOGRAPHICS	Total (n=155)
*Data not available at cut-off date	
Age at study entry (years)	Median (range): 62.3 (39-88)
ECOG performance status, n (%)	
0	60 (38.7)
1	55 (35.5)
2	3 (1.9)
Not available*	37 (23.9)
Relapse-free interval, n (%)	
≤ 12 months	118 (75.8)
Tumor grade at diagnosis, n (%)	
High grade	111 (71.6)
Intermediate grade	33 (21.3)
Low grade	9 (5.7)
Not done / Unknown*	2 (1.3)
BRCA 1/2 status (known), n (%)	
Positive	39 (25.2)
Negative	38 (24.5)
Unknown*	78 (50.3)
Prior treatments, n (%)	
Platinum therapy	149 (96.1)
Prior secondary debulking	43 (27.8)
Prior radiotherapy	9 (5.8)
Prior chemotherapy	146 (94.2)
Prior use of antiangiogenics	89 (57.4)
Prior immunotherapy	71 (45.8)
Prior platinum-based therapy	146 (94.2)
Platinum sensitivity, n (%)	
Partially platinum sensitive	100 (64.5)
Highly platinum sensitive	33 (21.3)
Unknown*	22 (14.2)
Number of lines of prior chemotherapy, n (%)	
0	3 (1.9)
1	46 (29.3)
2	54 (34.8)
3	21 (13.5)
≥ 4	32 (20.6)

TRABECTEDIN - Treatment delivery	Total (n=155)
*Data not available at cut-off date	
Received cycles/patient	Median (range): 4.0 (1.0-34.0)
Cycle duration (days)	Median (range): 25.5 (21.0-75.0)
Treatment setting, n (%)	
Inpatient only	39 (24.7)
Outpatient only	99 (62.7)
Both	14 (8.9)
Not available*	6 (3.8)

Patients received a median of 4 PLD cycles per patient (range: 1-16). There were no significant differences between subgroups in the PLD dose, treatment setting, or treatment duration.

BEST RESPONSE, n (%)	Total (n=155)
*Data not available at cut-off date	
Complete response (CR)	12 (7.7)
Partial response (PR)	42 (26.8)
Stable disease (SD)	40 (25.8)
Progressive disease (PD)	32 (20.3)
Not evaluable / Missing *	21 (13.3)
Objective response rate (ORR; CR+PR)	60 (38.6)
[95% Confidence Interval]	[30.8-46.0]
Disease control rate (DCR; ORR+SD)	100 (64.5)
[95% Confidence Interval]	[58.5-75.0]

SAFETY, n (%)	Total (n=155)
Most frequent trabectedin related grade 3/5 AEs	
Neutropenia	33 (20.9)
Fatigue	2 (1.3)
Anemia	7 (4.4)
Thrombocytopenia	5 (3.2)
Vomiting	3 (1.9)

* AEs related to trabectedin and PLD were reported in 108 (69.7%) and 104 (67.1%) patients, respectively.

* The safety profile between subgroups was not different from that of the overall population.

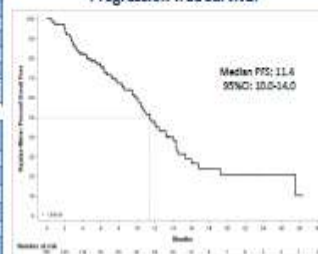
* No grade 5 or unexpected treatment related AEs occurred.



• Headline Study NIMES-ROC (NCT03025410) (P-0-01-01) is sponsored by PharmaMar S.A., Madrid, Spain.
• Corresponding author: Sandro Pignata (s.pignata@istitutotumori.na.it)
• Copies of the poster obtained through OASIS (oasis.istitutotumori.na.it) are for personal use only and may not be reproduced without written permission of the authors.

TOTAL POPULATION

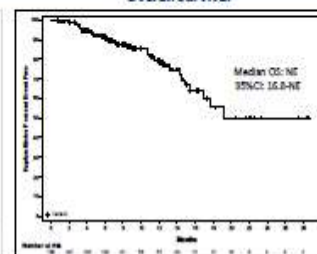
Progression-free survival



Progression-free survival (PFS) interim analysis	Total (n=155)
Censored*, n (%)	85 (53.8)
Patients with events*, n (%)	73 (46.2)

*Patients who have not died and do not have an assessment of disease progression are censored.

Overall survival



Overall survival (OS) interim analysis	Total (n=155)
Censored*, n (%)	126 (79.7)
Deaths, n (%)	32 (20.3)

*Patients who have not been reported as dead are included as "censored". CI, confidence interval.

ANALYSIS BY PRIOR USE OF ANTIANGIOGENICS

Progression-free survival

PFS interim analysis	Prior use of antiangiogenics		Log-rank test
	Yes (n=88)	No (n=70)	
Censored*, n (%)	43 (48.9)	44 (62.9)	
Patients with events*, n (%)	47 (53.4)	26 (37.1)	
Median PFS, months (95%CI)	10.1 (8.4-12.1)	14.3 (10.4-19.2)	0.007

*Patients who have not died and do not have an assessment of disease progression are censored.

Overall survival

OS interim analysis	Prior use of antiangiogenics		Log-rank test
	Yes (n=88)	No (n=70)	
Censored*, n (%)	66 (75.0)	60 (85.7)	
Deaths, n (%)	22 (25.0)	10 (14.3)	
Median OS, months (95%CI)	17.7 (13.3-46)	NT (14.8-NT)	0.032

*Patients who have not been reported as dead are included as "censored". CI, confidence interval.

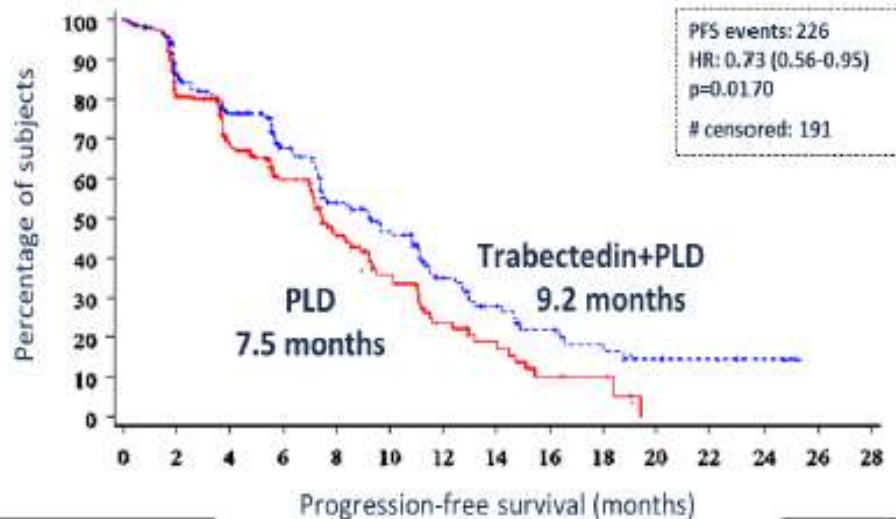
CONCLUSION

- Overall, the median PFS of 11.4 months compares very favorably with that found in the pivotal OVA-301 trial (i.e. median PFS 9.2 months), even with more pretreated patient population (39.5% with >2 prior chemo lines). Additionally, ORR and safety profile are in line with the results of the pivotal registration OVA-301 trial.
- Acknowledging the interim results from observational studies need to be interpreted with caution, our results suggest that trabectedin plus PLD is effective in ROC, regardless prior use of antiangiogenics.
- Our preliminary data suggest that patients not previously treated with antiangiogenic drugs had significantly longer PFS.
- The final data are expected by 2020.

OVA 301 : trabectedine+PLD vs PLD in platinum sensitive ROC.

Monk B, Eur J Cancer 2012

• PFS

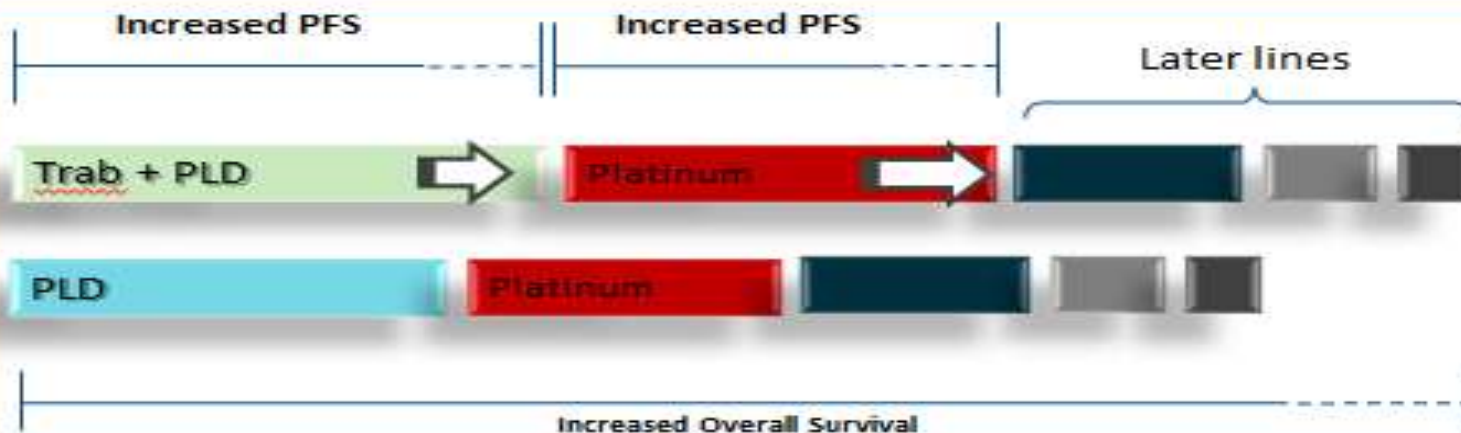


Prospective phase II trial of trabectedin in BRCA-mutated and/or BRCAness phenotype recurrent ovarian cancer patients: the MITO 15 trial

D. Lorusso¹, G. Scambia², S. Pignatelli³, R. Sorrenti⁴, G. Amadio⁵, S. Leon⁶, A. Miconi⁷, G. Piana⁸, G. Mangili⁹, G. Matarrese¹⁰, R. Salazar¹¹, G. Arici¹², T. Garavito¹³, M. D. Napoli¹⁴, E. Capoluongo¹⁵, V. Ludvig¹⁶, F. Raspagliesi¹⁷ & G. Ferrandina¹⁸

Response to
trabectedin according
to BRCA mutational
status

BRCA 1-2	N.	ORR (CR+PR)
WT	48	19 (39.6%)
MUT	21	12 (57.1%)



Effectiveness of Chemotherapy + antiangiogenetics at 1st relapse of OC

Armbruster S, Hematol/Oncol Clin North Am 2018

Table 1
Phase III trials of cytotoxic chemotherapy in patients with platinum-sensitive recurrent disease

Trial	Treatment	RR (%)	PFS (mo)	HR	OS (mo)	HR
ICON 4 ⁵	Platinum	54	9	0.76 ($P < .001$)	24	0.82 ($P = .023$)
	Platinum and paclitaxel	66	12		29	
AGO ⁶	Carboplatin	31	5.8	0.72 ($P = .003$)	17.3	0.96 ($P = .73$)
	Gemcitabine and carboplatin	47	8.6		18	
CALYPSO	Carboplatin and Paclitaxel	—	9.4	0.82 ($P = .005$)	33.0	0.99 ($P = .94$)
	Carboplatin and PLD	—	11.3		30.7	
OVA-301	PLD	33	7.5	0.73 ($P = .017$)	24.1	0.83 ($P = .11$)
	PLD and Trabectedin	42	9.2		27.0	

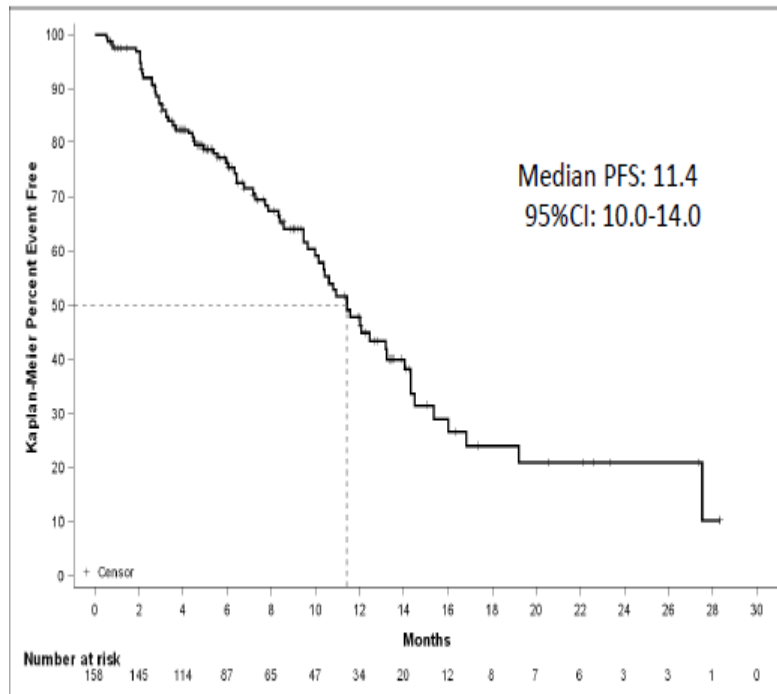
Table 3
Phase III trials of antiangiogenic agents in women with recurrent epithelial ovarian cancer

Trial	Treatment	Population	RR (%)	PFS (mo)	HR	OS	HR (mo)	US FDA Approval
OCEANS ^{20,21}	Gemcitabine and carboplatin	Platinum sensitive	57	8.4	0.48 ($P < .001$)	33.7	0.96 ($P = .73$)	Yes
	Gemcitabine, carboplatin, bevacizumab		79	12.4		33.4		
GOG 213 ²²	Paclitaxel, carboplatin	Platinum sensitive	59	10.4	0.61 ($P < .001$)	37.3	0.82 ($P = .056$)	Yes
	Paclitaxel, carboplatin, bevacizumab		79	13.8		42.2		
ICON 6 ^{23,24}	Paclitaxel, carboplatin (A)	Platinum sensitive	—	8.7	A vs C: 0.57 ($P < .001$)	19.9	A vs C: 0.85 ($P = .21$) ^a	No
	Paclitaxel, carboplatin, cediranib (B)		—	9.9		—		
	Paclitaxel, carboplatin, cediranib (maintenance) (C)		—	11.1		27.3		
TRINOVA-1 ^{19,35}	Paclitaxel weekly	Platinum sensitive, platinum resistant	—	5.4	0.66 ($P < .001$)	18.3	0.95 ($P = .52$)	No
	Paclitaxel weekly, trebananib		—	7.2		19.3		

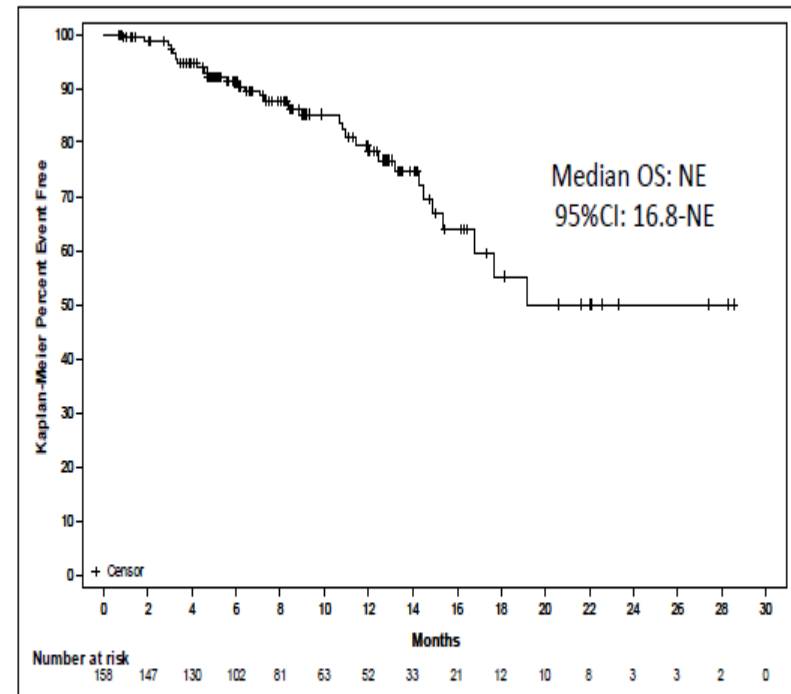
Trabectedin plus PLD in patients with PSROC: first results of an observational, prospective study (NIMES-ROC)

TOTAL POPULATION

Progression-free survival



Overall survival



Progression-free survival (PFS)	Total
Interim analysis	(n=158)
Censored*, n (%)	85 (53.8)
Patients with events*, n (%)	73 (46.2)
*Patients who have not died and do not have an assessment of disease progression are 'censored.'	

Overall survival (OS)	Total
Interim analysis	(n=158)
Censored*, n (%)	126 (79.7)
Deaths, n (%)	32 (20.3)
*Patients who have not been reported as dead are included as 'censored.' CI, confidence interval.	

Trabectedin plus PLD in patients with PSROC: first results of an observational, prospective study (NIMES-ROC)

ANALYSIS BY PRIOR USE OF ANTIANGIOGENICS

Progression-free survival

Progression-free survival (PFS) Interim analysis	Prior use of antiangiogenics		
	Yes (n=88)	No (n=70)	Log-rank test p-value
Censored*, n (%)	41 (46.6)	44 (62.9)	
Patients with events*, n (%)	47 (53.4)	26 (37.1)	
Median PFS, months (95%CI)	10.1 (8.4-12.1)	14.3 (10.4-19.2)	

*Patients who have not died and do not have an assessment of disease progression are 'censored.'

Overall survival

Overall survival (OS) Interim analysis	Prior use of antiangiogenics		
	Yes (n=88)	No (n=70)	Log-rank test p-value
Censored*, n (%)	66 (75.0)	60 (85.7)	
Deaths, n (%)	22 (25.0)	10 (14.3)	
Median OS, months (95%CI)	17.7 (13.2-NE)	NE (16.8-NE)	

*Patients who have not been reported as dead are included as 'censored.'

CI, confidence interval.

CONCLUSION

- Overall, the median PFS of 11.4 months compares very favorably with that found in the pivotal OVA-301 trial (i.e. median PFS 9.2 months), even with more pretreated patient population (39.9% with >2 prior chemo lines). Additionally, ORR and safety profile are in line with the results of the pivotal registration OVA-301 trial.
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- Our preliminary data suggest that patients not previously treated with antiangiogenic drugs had significantly longer PFS.
- The final data are expected by 2020.

This article was published on October 21,
2018, at NEJM.org.

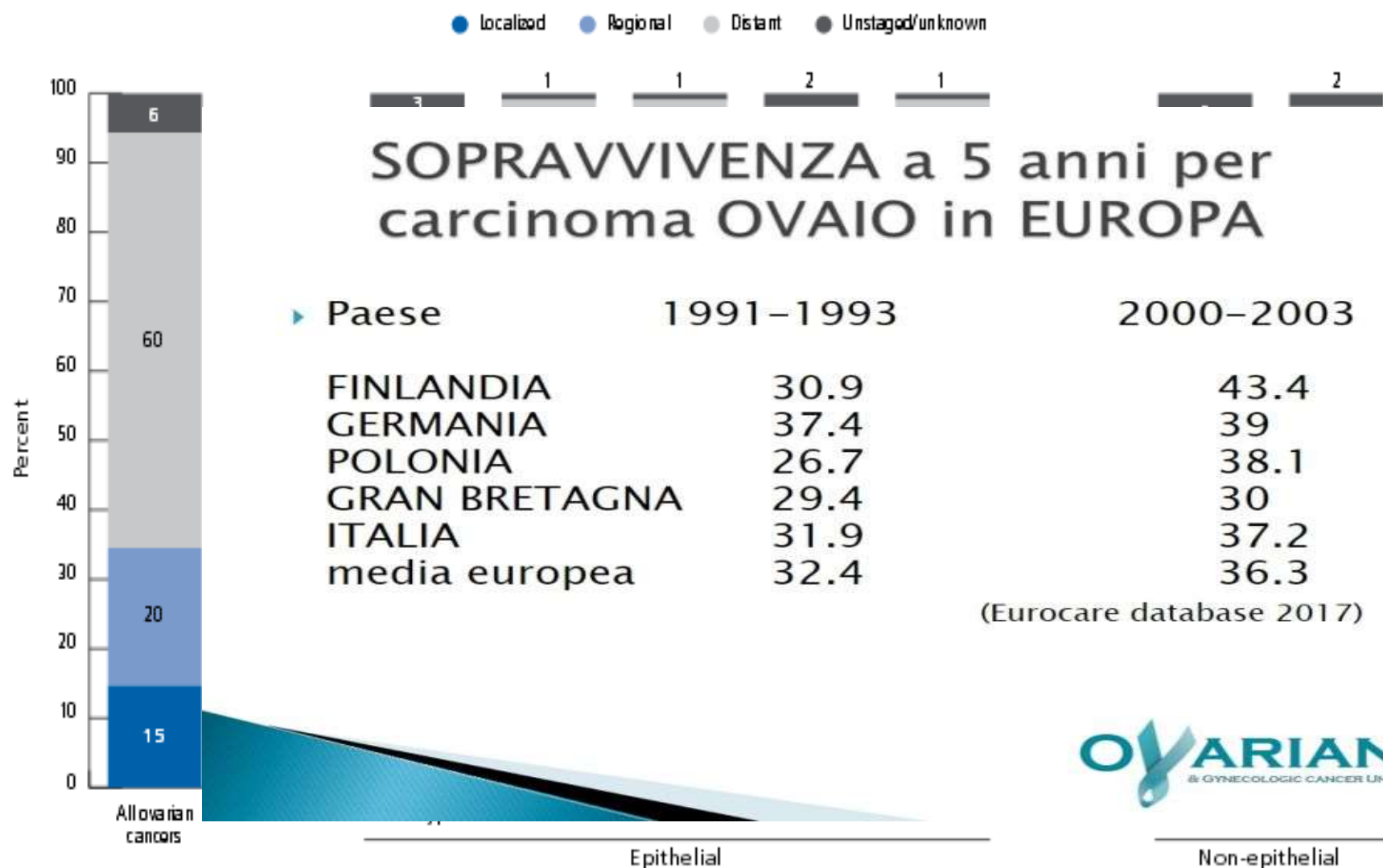
The NEW ENGLAND JOURNAL *of* MEDICINE

ORIGINAL ARTICLE

Maintenance Olaparib in Patients with Newly Diagnosed Advanced Ovarian Cancer

K. Moore, N. Colombo, G. Scambia, B.-G. Kim, A. Oaknin, M. Friedlander,
A. Lisianskaya, A. Floquet, A. Leary, G.S. Sonke, C. Gourley, S. Banerjee, A. Oza,
A. González-Martín, C. Aghajanian, W. Bradley, C. Mathews, J. Liu, E.S. Lowe,
R. Bloomfield, and P. DiSilvestro

Figure S6. Stage Distribution (%) for Ovarian Cancer by Histology, US, 2007-2013

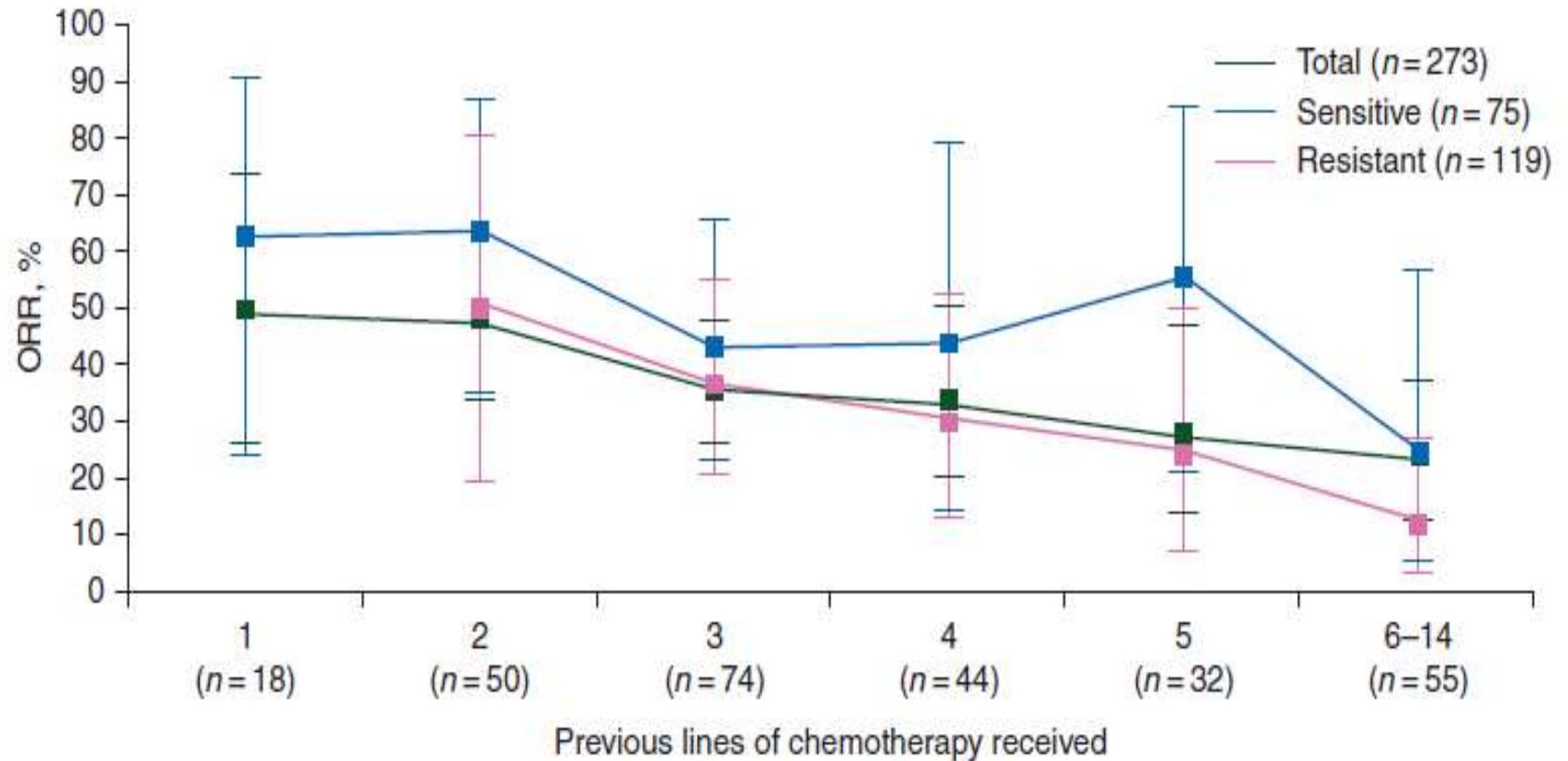


Source: Howlander N, Noone AM, Krapcho M, et al. (eds). *SEER Cancer Statistics Review 1975-2014*, National Cancer Institute, Bethesda, MD. www.seer.cancer.gov/csr/1975_2014/, based on November 2016 SEER data submission, posted to the SEER website April 2017 (all ovarian cancers); SEER 18 Registries, National Cancer Institute, 2017 (subtypes).

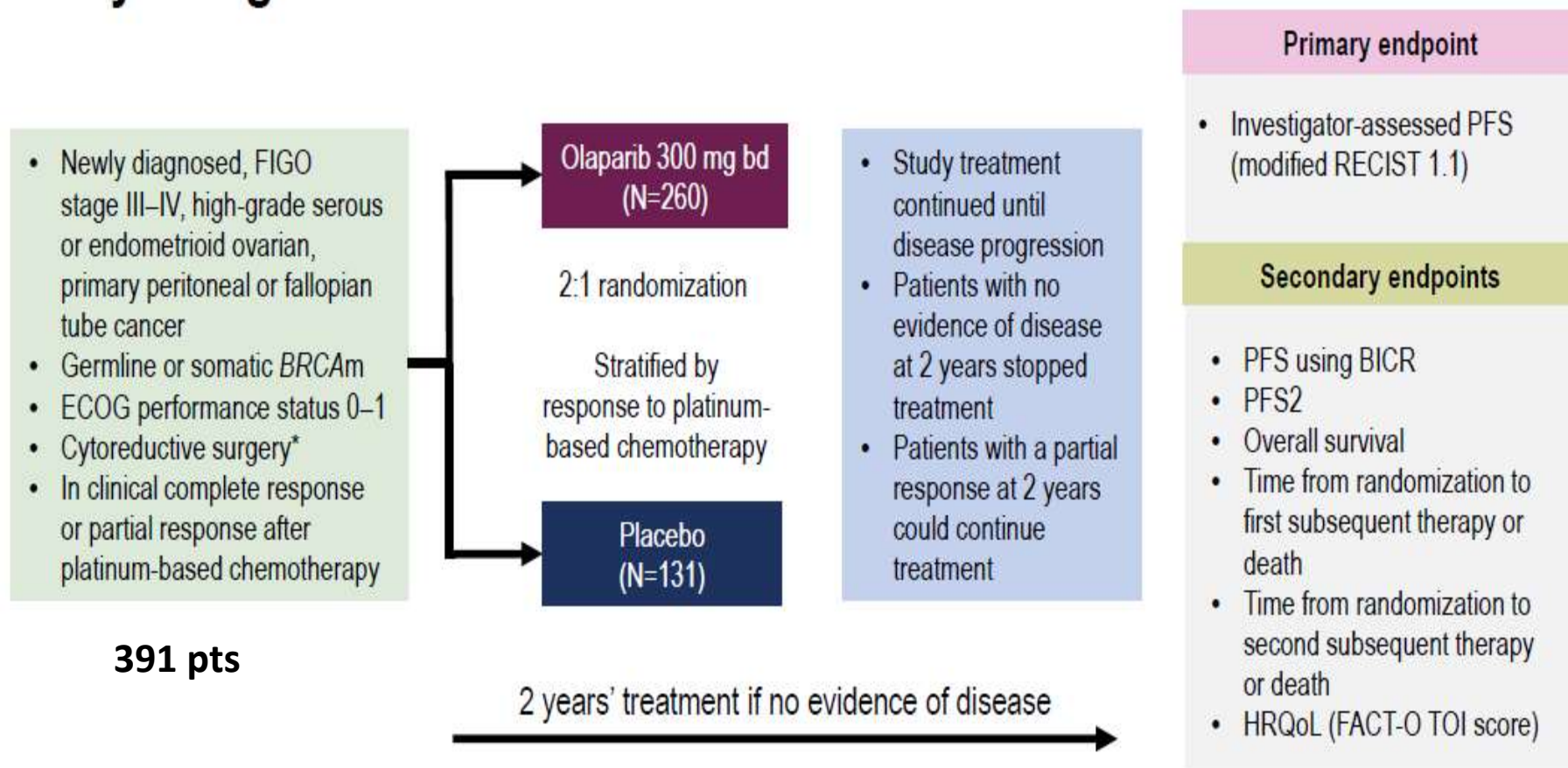
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Clinical response as a continuum in ROC

Ritardare la progressione!



Study design



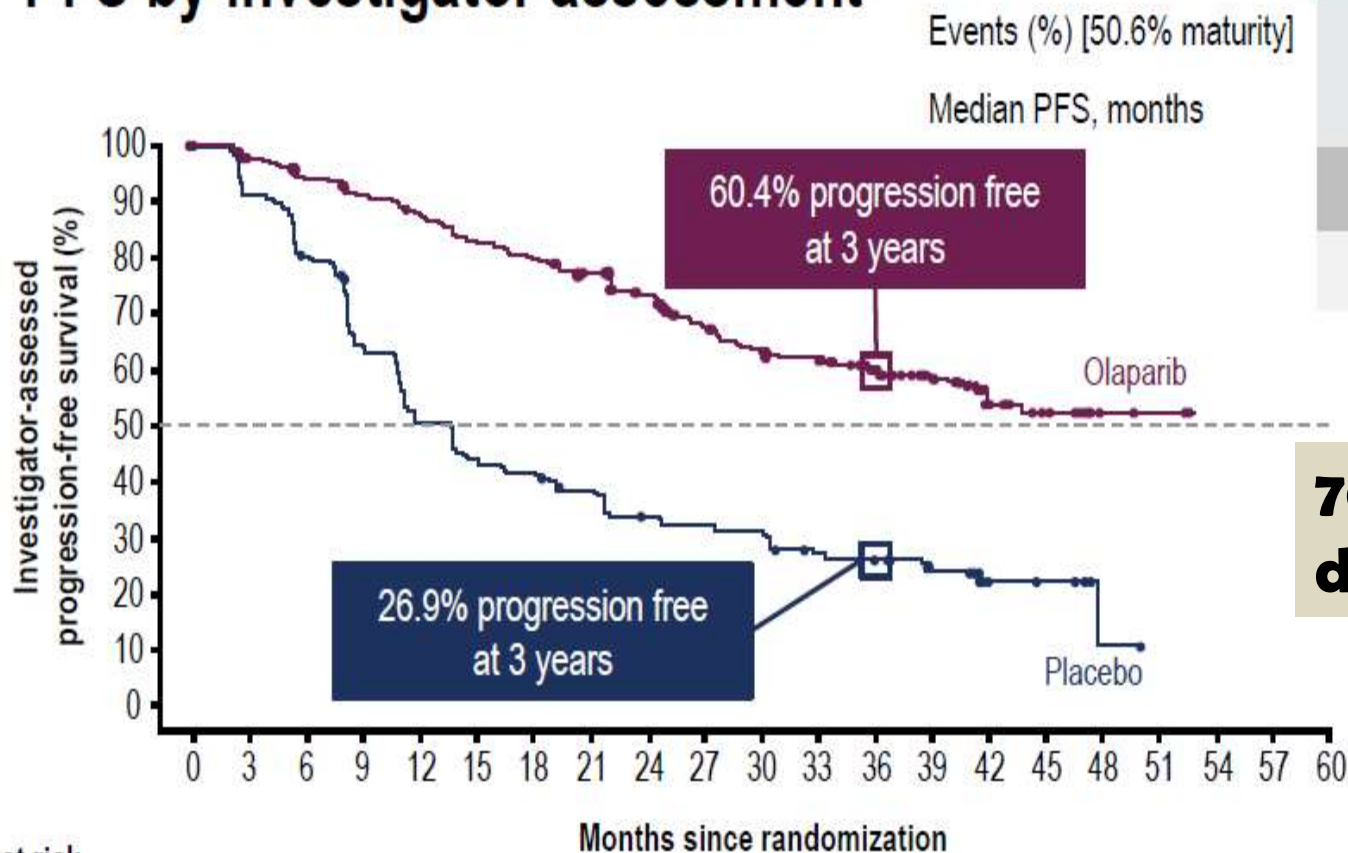
*Upfront or interval attempt at optimal cytoreductive surgery for stage III disease and either biopsy and/or upfront or interval cytoreductive surgery for stage IV disease.

BICR, blinded independent central review; ECOG, Eastern Cooperative Oncology Group; FACT-O, Functional Assessment of Cancer Therapy – Ovarian Cancer; FIGO, International Federation of Gynecology and Obstetrics; HRQoL, health-related quality of life; PFS, progression-free survival; PFS2, time to second progression or death; RECIST, Response Evaluation Criteria in Solid Tumours; TOI, Trial Outcome Index

Patient disposition

	Olaparib	Placebo
Randomized, n	260	131
Treated, n	260	130
Discontinued treatment before 2 years	111 (42.7)	92 (70.8)
Completed treatment at 2 years per protocol	123 (47.3)	35 (26.9)
Continued treatment beyond 2 years	26 (10.0)	3 (2.3)
Still receiving treatment at data cut-off	13 (5.0)	1 (0.8)
Discontinued treatment for reason other than protocol-defined 2-year stopping rule	124 (47.7)	94 (72.3)
Objective disease progression	51 (19.6)	78 (60.0)
Adverse event	30 (11.5)	3 (2.3)
Patient decision	22 (8.5)	2 (1.5)
Other*/unknown reason	21 (8.1)	11 (8.5)
Median (range) duration of treatment, months	24.6 (0–52.0)	13.9 (0.2–45.6)
Median (IQR) duration of follow-up, months	40.7 (34.9–42.9)	41.2 (32.2–41.6)

PFS by investigator assessment



Olaparib (N=260)	Placebo (N=131)
102 (39.2)	96 (73.3)
NR	13.8
HR 0.30	
95% CI 0.23, 0.41; $P < 0.0001$	

**70% di riduzione
del rischio di PD**

No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
Olaparib	260	240	229	221	212	201	194	184	172	149	138	133	111	88	45	36	4	3	0	0	0
Placebo	131	118	103	82	65	56	53	47	41	39	38	31	28	22	6	5	1	0	0	0	0

PFS subgroup analysis

Olaparib 300 mg bd

Placebo bd

Number of patients with events/total number of patients (%)

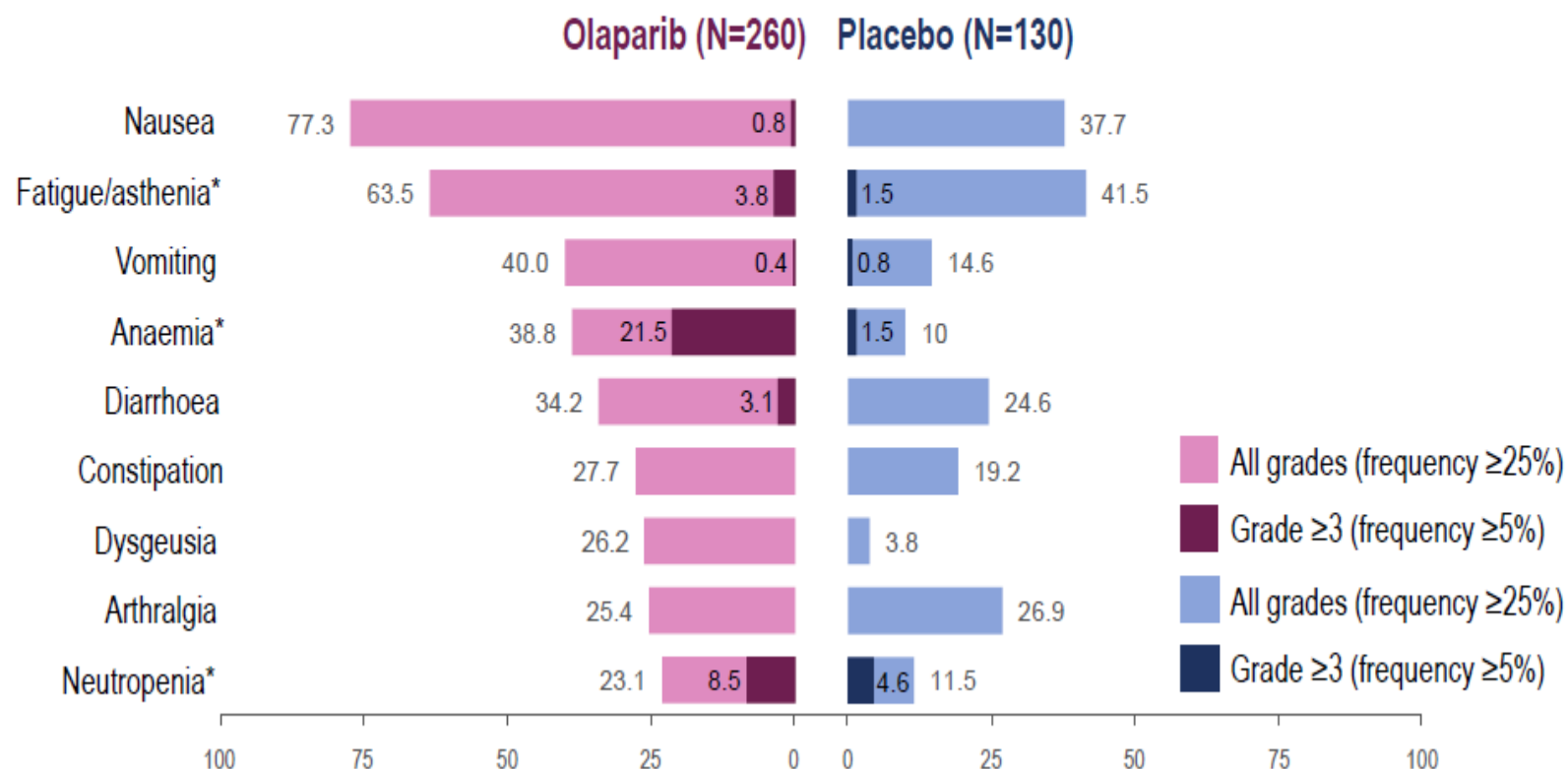
HR (95% CI)

Subgroup	Olaparib 300 mg bd	Placebo bd	HR (95% CI)
All patients	102/260 (39.2)	96/131 (73.3)	0.30 (0.23, 0.41)
Response after surgery/platinum-based chemotherapy			
Clinical complete response	73/213 (34.3)	73/107 (68.2)	0.35 (0.26, 0.49)
Partial response	29/47 (61.7)	23/24 (95.8)	0.19 (0.11, 0.34)
ECOG performance status at baseline			
Normal activity	75/200 (37.5)	76/105 (72.4)	0.33 (0.24, 0.46)
Restricted activity	27/60 (45.0)	20/25 (80.0)	0.38 (0.21, 0.68)
Baseline CA-125 value			
≤ULN	92/247 (37.2)	89/123 (72.4)	0.34 (0.25, 0.46)
>ULN	10/13 (76.9)	7/7 (100.0)	NC
gBRCA mutation type by Myriad testing			
BRCA1	84/188 (44.7)	69/91 (75.8)	0.40 (0.29, 0.56)
BRCA2	15/62 (24.2)	26/39 (66.7)	0.20 (0.10, 0.38)
BRCA1/2 (both)	0/3	0/0	NC
Negative	3/7 (42.9)	1/1 (100.0)	NC
Age			
<65 years	85/225 (37.8)	82/112 (73.2)	0.33 (0.24, 0.45)
≥65 years	17/35 (48.6)	14/19 (73.7)	0.45 (0.22, 0.92)
Stage of disease at initial diagnosis			
Stage III	83/220 (37.7)	79/105 (75.2)	0.32 (0.24, 0.44)
Stage IV	19/40 (47.5)	17/26 (65.4)	0.49 (0.25, 0.94)
Following debulking surgery prior to study entry			
Residual macroscopic disease	29/55 (52.7)	23/29 (79.3)	0.44 (0.25, 0.77)
No residual macroscopic disease	70/200 (35.0)	69/98 (70.4)	0.33 (0.23, 0.46)

0.0625 0.1250 0.2500 0.5000 1.0000 2.0000

← Olaparib better Placebo better →

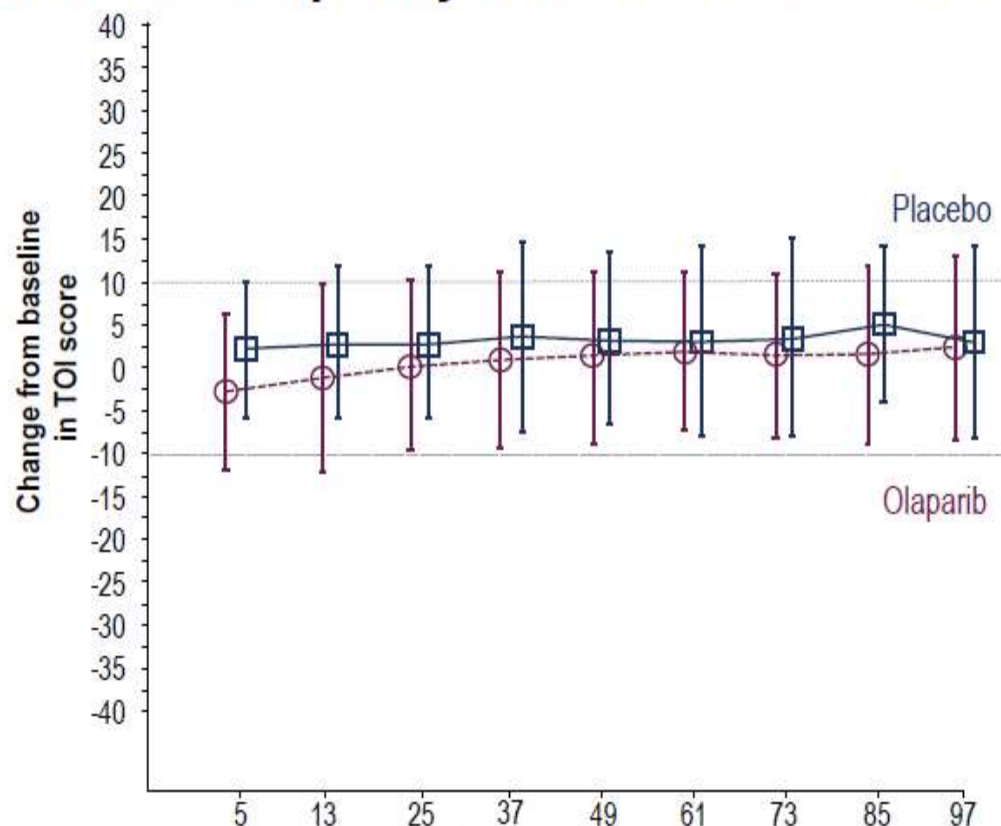
Most common treatment-emergent adverse events



Adverse events of special interest

	Olaparib (N=260)	Placebo (N=130)
MDS/AML,* n (%)	3 (1.2)	0
New primary malignancies,† n (%)	5 (1.9)	3 (2.3)
Pneumonitis/ILD, n (%)	5 (1.9)	0

Health-related quality of life: FACT-O TOI score*



The difference between olaparib and placebo in the mean change from baseline in TOI score over 24 months (-3.00; 95% CI -4.779, -1.216) was not clinically meaningful

No. at risk

	5	13	25	37	49	61	73	85	97
Olaparib	218	204	191	186	179	163	144	141	137
Placebo	115	114	104	91	75	61	51	49	42

*TOI scores range from 0 to 100, with higher scores indicating better HRQoL and a clinically meaningful difference defined as ± 10 points

Conclusions

- Maintenance olaparib led to a substantial, unprecedented improvement in PFS in patients with newly diagnosed, advanced ovarian cancer and a *BRCAM*, with a difference in median PFS for olaparib versus placebo of approximately 3 years
 - There was no obvious change in Kaplan-Meier curves after 2 years in the olaparib group, indicating an apparent enduring treatment benefit after stopping treatment
- There was a statistically significant improvement in PFS2, suggesting that olaparib did not diminish patients' ability to benefit from subsequent therapy
- Olaparib was generally well tolerated, with a safety profile consistent with that observed in the relapsed disease setting
- Maintenance olaparib should be considered standard treatment following platinum-based chemotherapy for women with newly diagnosed, advanced ovarian cancer and a *BRCAM*