


# Gynecologic Oncology Best of ASCO

Vincent Wagner, MD

# Disclosure

**I have no relevant financial relationships or conflicts of interests to disclose**



A grayscale photograph of a rural landscape with rolling hills, fields, and a farm with a silo in the center. The text 'CERVIX CANCER' is overlaid in the middle of the image.

# CERVIX CANCER

# RTOG 0724/GOG-0724

## Adjuvant Chemotherapy following Concurrent Chemoradiation (CRT) in High-Risk Early-Stage Cervical Carcinoma Patients Following Radical Hysterectomy: Results of NRG Oncology/RTOG 0724/GOG-0724

Anuja Jhingran, MD, Heidi J Gray, MD, Jennifer Moughan, MS, Joanne Weidhaas, MD, PhD, Rachel Hirschey, MD, Mohammad R Salehpour, PhD, Jae-Hoon Kim, MD, PhD, Professor, Beob-Jong Kim, MD, PhD, Professor, Jae-Weon Kim, MD, PhD, Professor, J. Spencer Thompson, MD, Paul A DiSilvestro, MD, Floor J Backes, MD, Ann Klopp, MD, Joanne Alfieri, MMed, MDCM, FRCPC, Theresa L Werner, MD, David S Miller, MD, Bradley J Monk, MD, William Small Jr, MD, FACRO, FACR, FASTRO, Kathryn Winter, MS, David Gaffney, MD, PhD

Jhingran, ASCO 2024

### Schema

- Clinical stage IA2, IB, or IIA with high risk factors after surgery
- Radical hysterectomy – positive nodes and/or positive parametrium

S T R A T I F Y	Intention To Use Brachytherapy	R A N D O M I Z E	<u>Arm 1</u> Concurrent weekly cisplatin and RT ± brachytherapy
	1. No 2. Yes		Versus
	RT Modality		<u>Arm 2</u> Concurrent weekly cisplatin and RT ± brachytherapy
	1. Standard RT 2. IMRT		FOLLOWED BY Carboplatin and paclitaxel
	Radiation Therapy Dose		
	1. 45 Gy 2. 50.4 Gy		

# RTOG 0724/GOG-0724

## Results: Enrollment

- Enrollment: 9/16/2009 - 3/2/2022
- 236 patients randomized - 212 eligible
  - 109 Cisplatin-RT (Arm 1)
  - 103 Cisplatin-RT + Chemo (Arm 2)
- Median age 46 years (min-max: 25 -77)
- Median follow-up for all patients – 4.5 years (min-max: 0.02-12.8)

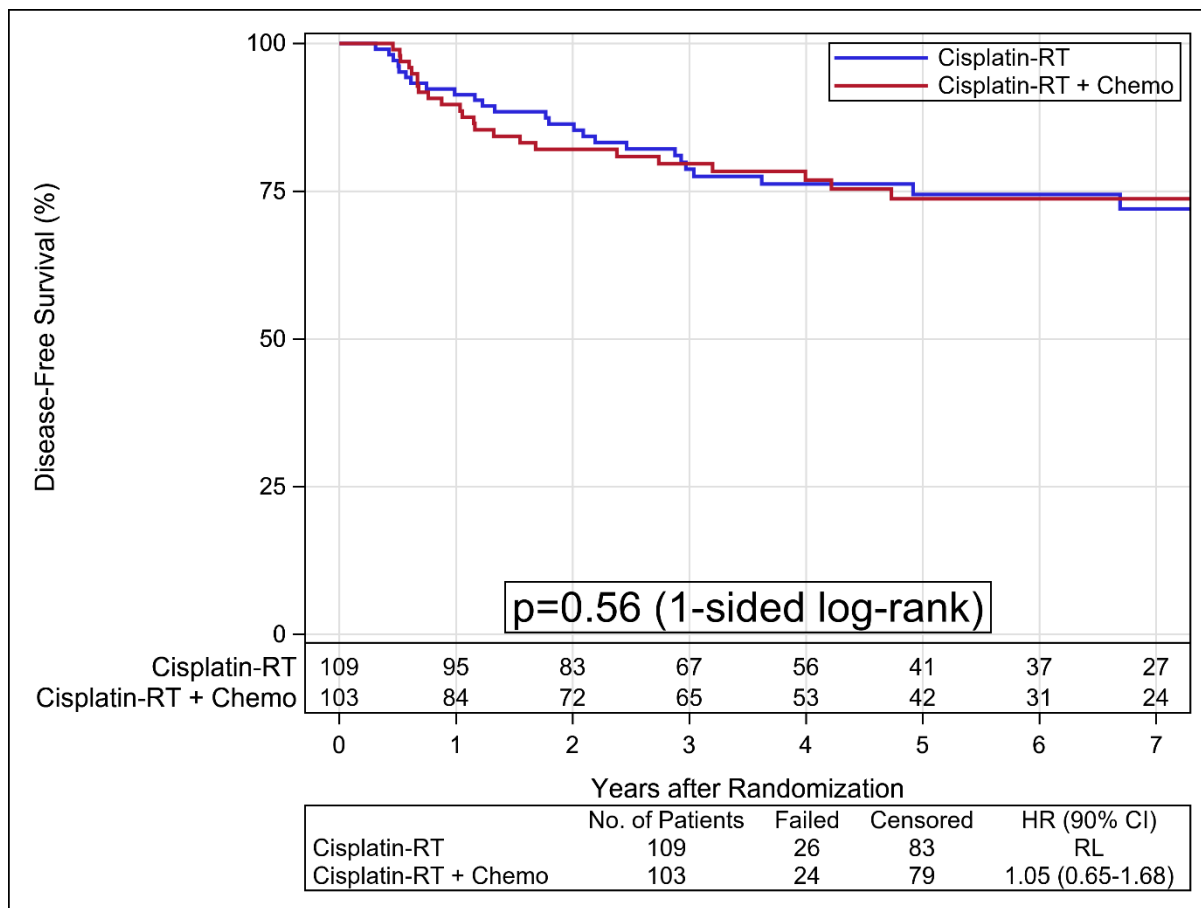
	Cis + RT (n=109)	Cis + RT + chemo (n=103)	Total (n=212)
<b>Race</b>			
White	60 (55%)	49 (48%)	109 (51%)
Asian	42 (39%)	40 (39%)	82 (39%)
Other	7 (6%)	14 (14%)	21 (10%)
<b>Hysterectomy</b>			
Open	64 (59%)	54 (52%)	118 (56%)
Laparoscopic/Robotic	45 (41%)	49 (48%)	94 (44%)
<b>Histological type</b>			
Squamous cell	88 (81%)	74 (72%)	162 (76%)
Adenosquamous	6 (6%)	5 (5%)	11 (5%)
Adenocarcinoma	15 (14%)	24 (23%)	39 (18%)

	Cis + RT (n=109)	Cis + RT + chemo (n=103)	Total (n=212)
<b>Stage</b>			
IA2	3 (3%)	6 (6%)	9 (4%)
IB	97 (89%)	88 (85%)	185 (87%)
IIA	9 (8%)	9 (9%)	18 (8%)
<b>Positive pelvic nodes</b>			
No	33 (30%)	23 (22%)	56 (26%)
Yes	76 (70%)	80 (78%)	156 (74%)
<b>Positive para-aortic nodes</b>			
No	54 (50%)	43 (42%)	97 (46%)
Yes	3 (3%)	5 (5%)	8 (4%)
Not dissected	52 (48%)	55 (53%)	107 (50%)

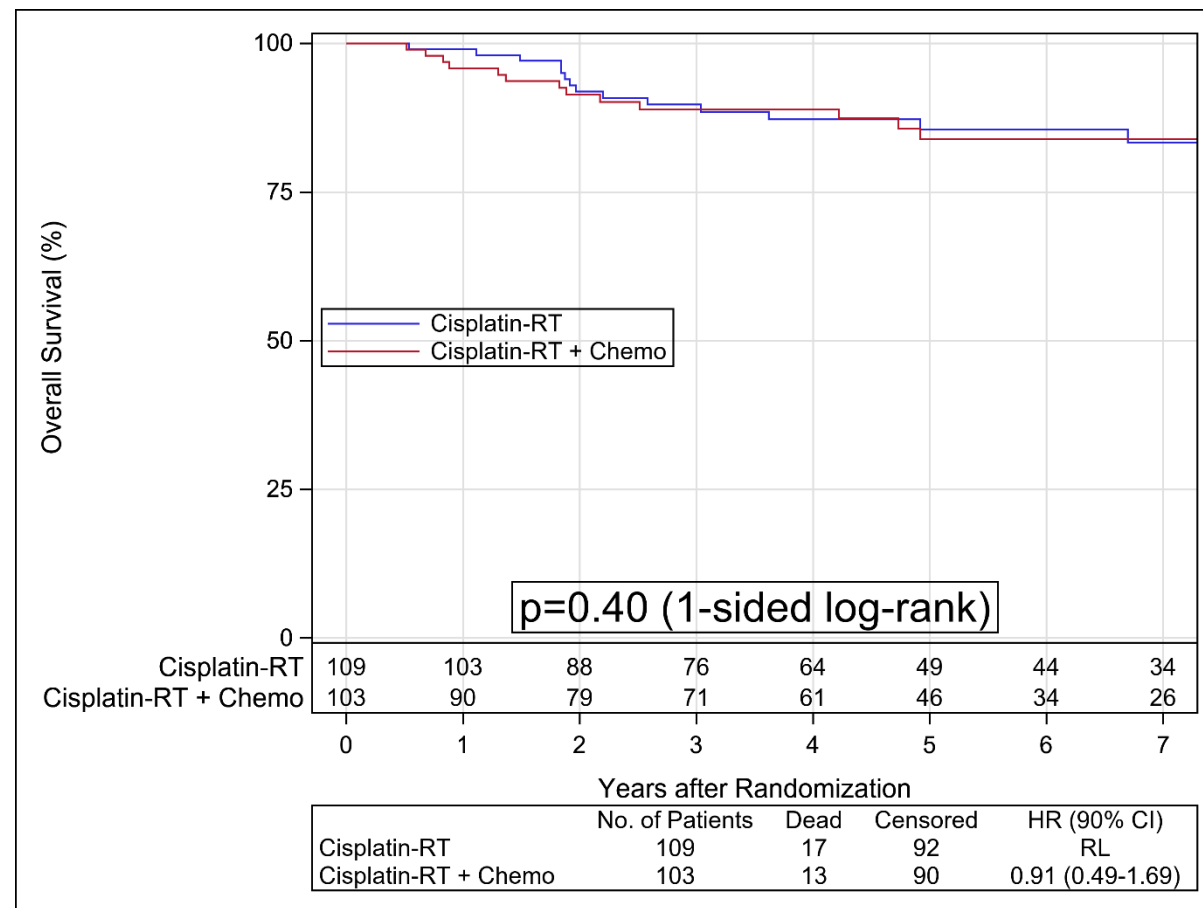
	Cis + RT (n=109)	Cis + RT + chemo (n=103)	Total (n=212)
<b>Intention to use Brachytherapy</b>			
No	61 (56%)	58 (56%)	119 (56%)
Yes	48 (44%)	45 (44%)	93 (44%)
<b>RT modality</b>			
Standard RT	46 (42%)	41 (40%)	87 (41%)
IMRT	63 (58%)	62 (60%)	125 (59%)
<b>RT dose</b>			
45 Gy	35 (32%)	30 (29%)	65 (31%)
50.4 Gy	74 (68%)	73 (71%)	147 (69%)

# RTOG 0724/GOG-0724

## Disease-Free Survival



## Overall Survival



## RTOG 0724/GOG-0724

### Conclusion and Key Takeaways

- The addition of systemic chemotherapy to CRT did not improve DFS or OS in patient with high-risk cervical cancer after radical hysterectomy.
- There is no role for chemotherapy following CRT in the treatment of cervical cancer.

A grayscale photograph of a rural landscape with rolling hills, fields, and a farm with a silo in the center. The text "ENDOMETRIAL CANCER" is overlaid in the middle of the image.

# ENDOMETRIAL CANCER

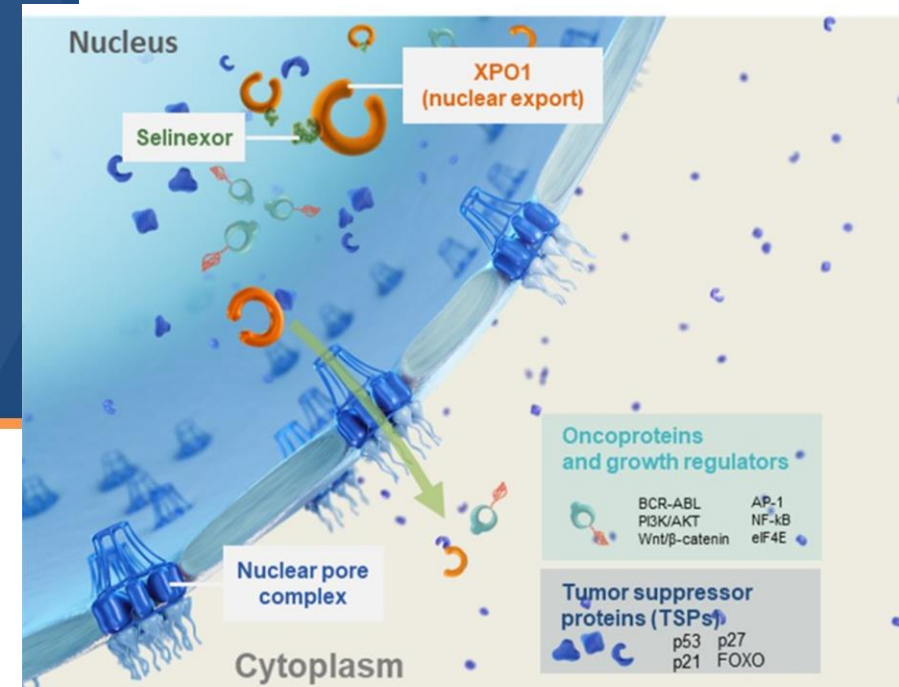


# SIENDO-LONG TERM FOLLOW UP UPDATE

## Long-term Follow-up of Selinexor Maintenance for Patients With *TP53*wt Advanced or Recurrent Endometrial Cancer: A Prespecified Subgroup Analysis From the Phase 3 ENGOT-EN5/GOG-3055/SIENDO Study

Vicky Makker,<sup>1</sup> Brian Slomovitz<sup>2</sup>, Alejandro Pérez Fidalgo,<sup>3</sup> Erika Hamilton,<sup>4</sup> Giorgio Valabrega,<sup>5</sup> Toon Van Gorp,<sup>2</sup> Jalid Sehoul,<sup>6</sup> Jaroslav Klat,<sup>7</sup> Tally Levy,<sup>8</sup> Stephen Welch,<sup>9</sup> Debra L. Richardson,<sup>10</sup> Eva Maria Guerra Alía,<sup>11</sup> Giovanni Scambia,<sup>12</sup> Stéphanie Henry,<sup>13</sup> Pauline Wimberger,<sup>14</sup> Jerónimo Martínez,<sup>15</sup> Bradley J. Monk,<sup>16</sup> Pratheek Kalyanapu,<sup>17</sup> Mansoor Raza Mirza,<sup>18</sup> Ignace Vergote<sup>19</sup>

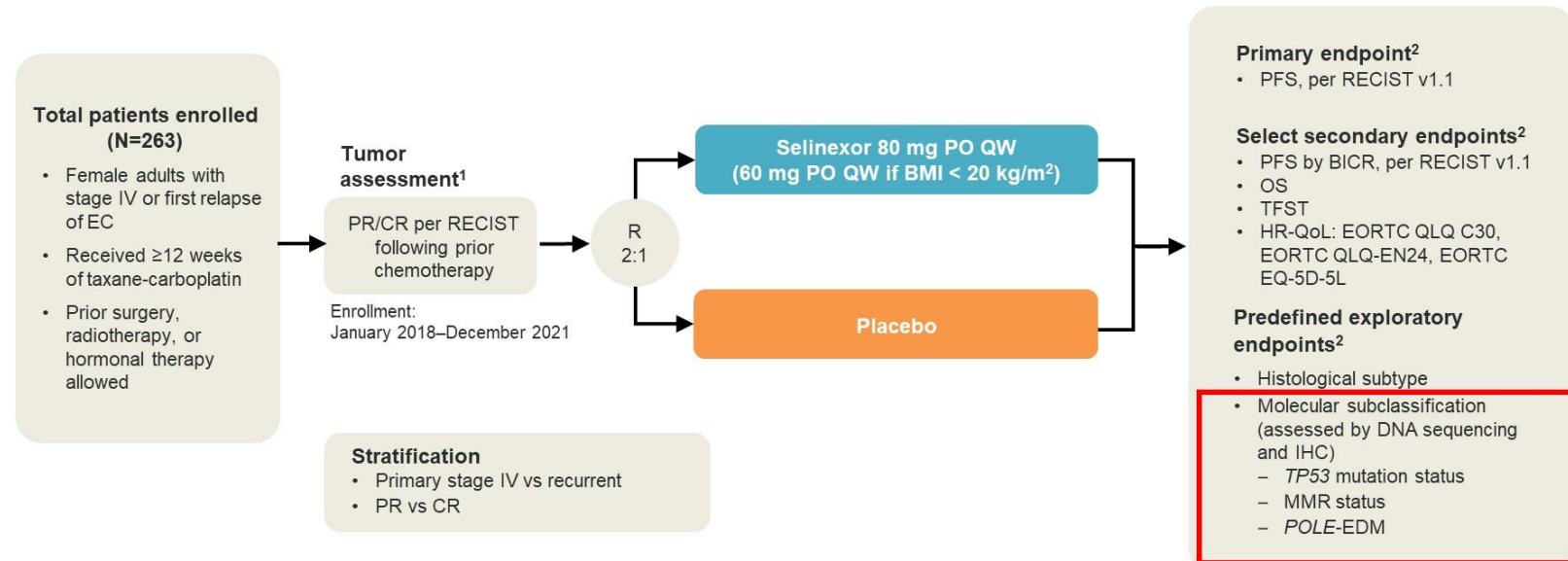
<sup>1</sup>Memorial Sloan Kettering Cancer Center; <sup>2</sup>Mount Sinai Medical Center and Florida International University, Miami, FL, USA; <sup>3</sup>GEICO. Hospital Clínico Universitario de Valencia. INCLIVA. CIBERONC. Spain; <sup>4</sup>Sarah Cannon Research Institute, Tennessee Oncology; <sup>5</sup>MITO and Department of Oncology, University of Torino, at Mauriziano Hospital, Turin, Italy; <sup>6</sup>NOGGO and Department of Gynecology, European Competence Center for Ovarian Cancer, Charité Comprehensive Cancer Center, Charité–Berlin University of Medicine; <sup>7</sup>CEEGOG and University Hospital Ostrava and University of Ostrava, Ostrava-Poruba, Czech Republic; <sup>8</sup>ISGO and Gynecologic Oncology Unit, Department of Obstetrics and Gynecology, Wolfson Medical Center, Holon, affiliated with Sackler Faculty of Medicine, Tel Aviv University; <sup>9</sup>London Health Sciences Centre; <sup>10</sup>Stephenson Cancer Center, University of Oklahoma Health Sciences Center; <sup>11</sup>GEICO and Hospital Universitario Ramón y Cajal; <sup>12</sup>MITO and Fondazione Policlinico Universitario A. Gemelli IRCCS, Rome, Italy; <sup>13</sup>BGOG and Université Catholique de Louvain, CHU UCL Namur Site Ste Elisabeth, Service d'onco-hématologie (SORMN), Place Louise Godin 15 B-5000 Namur; <sup>14</sup>NOGGO and Technische Universität Dresden, University Hospital Carl Gustav Carus, Department of Obstetrics and Gynecology; <sup>15</sup>GEICO and Hospital Universitario Virgen de la Arrixaca, Department of Oncology, Murcia, Spain; <sup>16</sup>GOG Foundation, University of Arizona, Creighton University, Phoenix, AZ USA; <sup>17</sup>Karyopharm Therapeutics; <sup>18</sup>Rigshospitalet – Copenhagen University Hospital, Copenhagen, Denmark; <sup>19</sup>BGOG and Leuven Cancer Institute, University Hospitals Leuven, European Union



Selinexor prevents the XPO1-mediated export of several TSPs, including wild-type p53<sup>1</sup>

# SIENDO-LONG TERM FOLLOW UP UPDATE

## ENGOT-EN5/GOG-3055/SIENDO (NCT03555422): A Randomized Double-Blind, Phase 3 Trial of Maintenance With Selinexor/Placebo After Combination Chemotherapy for Patients With Advanced or Recurrent Endometrial Cancer<sup>1,2</sup>



BICR, blinded independent central review; CR, complete response; EDM, exonuclease domain mutation; EORTC, European Organisation for Research and Treatment of Cancer; EQ-5D-5L, Quality of Life Questionnaire EuroQol-5 Dimensions-5 Levels; HR-QoL, health-related quality of life; MMR, mismatch repair; OS, overall survival; PD, progressive disease; PO, by mouth; POLE, polymerase epsilon; PR, partial response; PROs, patient-reported outcomes; QLQ, quality of life questionnaire; QW, once weekly; R, randomized; RECIST, Response Evaluation Criteria in Solid Tumors; TFST, time to first subsequent therapy  
 1. ClinicalTrials.gov. NCT03555422. <https://www.clinicaltrials.gov/study/NCT03555422?term=NCT03555422>. Accessed April 1 2024. 2. Vergote I, et al. Presentation at: European Society for Medical Oncology Virtual Plenary; March 17-18, 2022; Abstract VP2-2022.  
 Primary study results previously published in Vergote I, et al *J Clin Oncol*. 2023;41(35):5400-5410.

# SIENDO-LONG TERM FOLLOW UP UPDATE

## Long-term mPFS of 28.4 Months in *TP53*wt Subgroup



Data cutoff date: April 1, 2024  
 HR, hazard ratio; NR, not reached.  
 \*Molecular status determined by sequencing (*TP53*wt, n=99; *TP53* mutant, n=97) and if NGS not available, by immunohistochemistry (*TP53*wt, n=14; *TP53* mutant, n=29).

5 | Presented by Vicky Makker, MD

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## Long-term mPFS of 39.5 Months in *TP53*wt/pMMR\* Subgroup



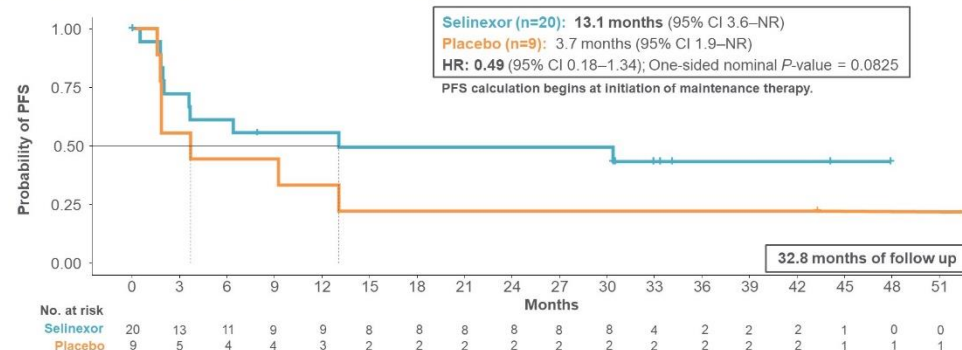
Data cutoff date: April 1, 2024  
 \*Molecular status determined by sequencing (*TP53*wt, n=99; *TP53* mutant, n=97; pMMR, n=164) and if NGS not available, by immunohistochemistry (*TP53*wt, n=14; *TP53* mutant, n=29; pMMR, n=20).

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## Long-term mPFS of 13.1 Months in *TP53*wt/dMMR\* Subgroup



Data cutoff date: April 1, 2024  
 \*Molecular status determined by sequencing (*TP53*wt, n=99; *TP53* mutant, n=97; pMMR, n=164) and if NGS not available, by immunohistochemistry (*TP53*wt, n=14; *TP53* mutant, n=29; pMMR, n=20).

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These Results Further Support The Ongoing Phase 3 ENGOT-EN20/GOG-3083/XPORT-EC-042 Trial of Selinexor 60 mg QW as Maintenance Therapy in Patients With Advanced or Recurrent *TP53*wt EC

# SIENDO-LONG TERM FOLLOW UP UPDATE

## Preliminary OS

	No. w/ events (%)	Median, months (95% CI)	Overall maturity (%)	HR (95% CI)	Nominal one-sided P-value	Median follow up (months)
<b>TP53wt</b>						
Selinexor (n=77)	24.7%	NR (45.4–NR)	29.2%	<b>0.65</b> (0.32–1.29)	0.11	36.8
Placebo (n=36)	38.9%	NR (35.2–NR)				
<b>TP53wt/pMMR</b>						
Selinexor (n=47)	25.5%	NR (45.4–NR)	34.3%	<b>0.48</b> (0.22–1.07)	0.03	38.5
Placebo (n=23)	52.2%	35.19 (26.9–NR)				
<b>TP53wt/dMMR</b>						
Selinexor (n=20)	10.0%	NR (NR–NR)	10.3%	<b>0.62</b> (0.06–6.81)	0.35	32.8
Placebo (n=9)	11.1%	NR (NR–NR)				

OS calculation begins at time of randomization and does not include duration of previous systemic chemotherapy.

Data cutoff date: April 1, 2024

Molecular status determined by sequencing (TP53wt, n=99; TP53 mutant, n=97; pMMR, n=164) and if NGS not available, by immunohistochemistry (TP53wt, n=14; TP53wt mutant, n=29; pMMR, n=20).

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These Results Further Support The Ongoing Phase 3 ENGOT-EN20/GOG-3083/XPORT-EC-042 Trial of Selinexor 60 mg QW as Maintenance Therapy in Patients With Advanced or Recurrent TP53wt EC

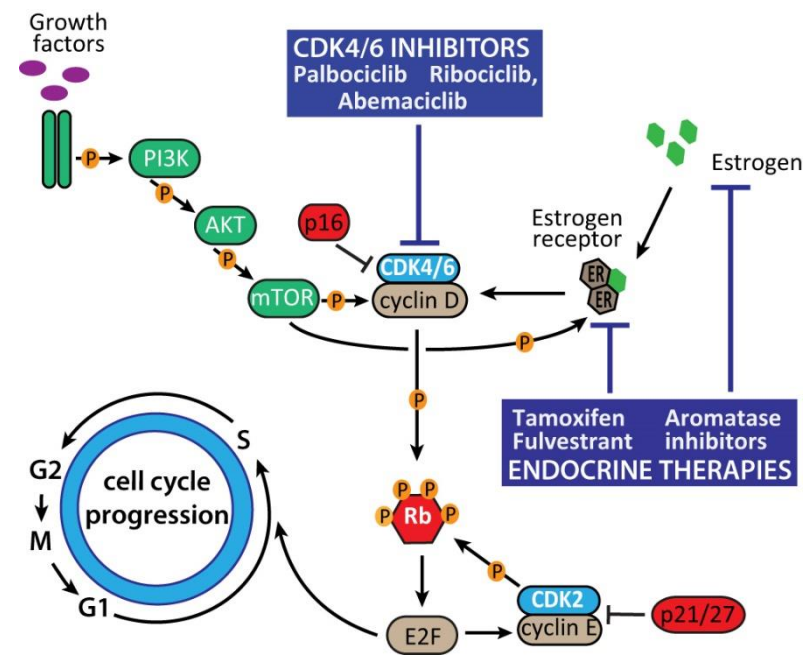
Makker, ASCO 2024

# FULVESTRANT/ABEMACICLIB

## A Phase II Study of Fulvestrant plus Abemaciclib in Hormone-Receptor Positive Advanced or Recurrent Endometrial Cancer

**Angela K. Green MD MSc**, Qin Zhou MA, Alexia Iasonos PhD, William A. Zammerelli III MD, Britta Weigelt PhD, Lora Ellenson MD, Rashmi Chhetri-Long MS, Pooja Shah MS, Jade Loh MS, Vania Hom BSN RN, Pier Selenica BSc, Joseph Erinjeri MD PhD, Iva Petkovska MD, Sarat Chandarlapaty MD PhD, Seth Cohen MD, Rachel Grisham MD, Jason Konner MD, Maria M. Rubinstein MD, William Tew MD, Tiffany Troso-Sandoval MD, Carol Aghajanian MD, Vicky Makker MD

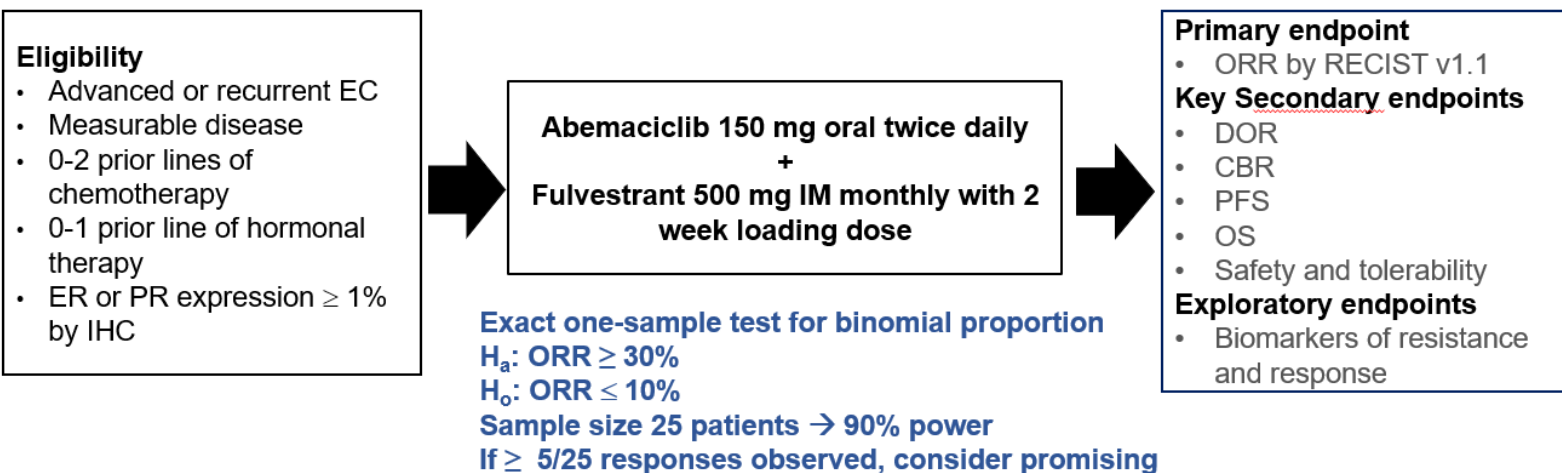
Memorial Sloan Kettering Cancer Center, New York, NY, USA



Endocrine-Related Cancer 26, 1; [10.1530/ERC-18-0317](https://doi.org/10.1530/ERC-18-0317)

# FULVESTRANT/ABEMACICLIB

## Study Design



IM=intramuscularly; ORR=Objective response rate; DOR=Duration of response; CBR=Clinical Benefit Rate; PFS=Progression Free Survival; OS=Overall survival

	Overall (N = 27)
Age, years, median (range)	66 (49-83)
<b>Histology, number (%)</b>	
Endometrioid	24 (88.9)
Grade 1	10 (41.7)
Grade 2	10 (41.7)
Grade 3	4 (16.7)
Serous	1 (3.7)
Mixed Endometrioid/Serous	2 (7.4)
<b>Estrogen Receptor IHC, number (%)</b>	
Positive	26 (96.3)
Negative	1 (3.1)
<b>Progesterone Receptor IHC, number (%)</b>	
Positive	19 (70.4)
Negative	1 (3.1)
Unknown/missing	7 (25.9)
<b>Number of prior lines of systemic therapy</b>	
1	13 (48.1)
2	14 (51.9)
<b>Prior hormone therapy</b>	
Yes	11 (40.7)
No	16 (59.3)

# FULVESTRANT/ABEMACICLIB

## Results – Objective Response Rate

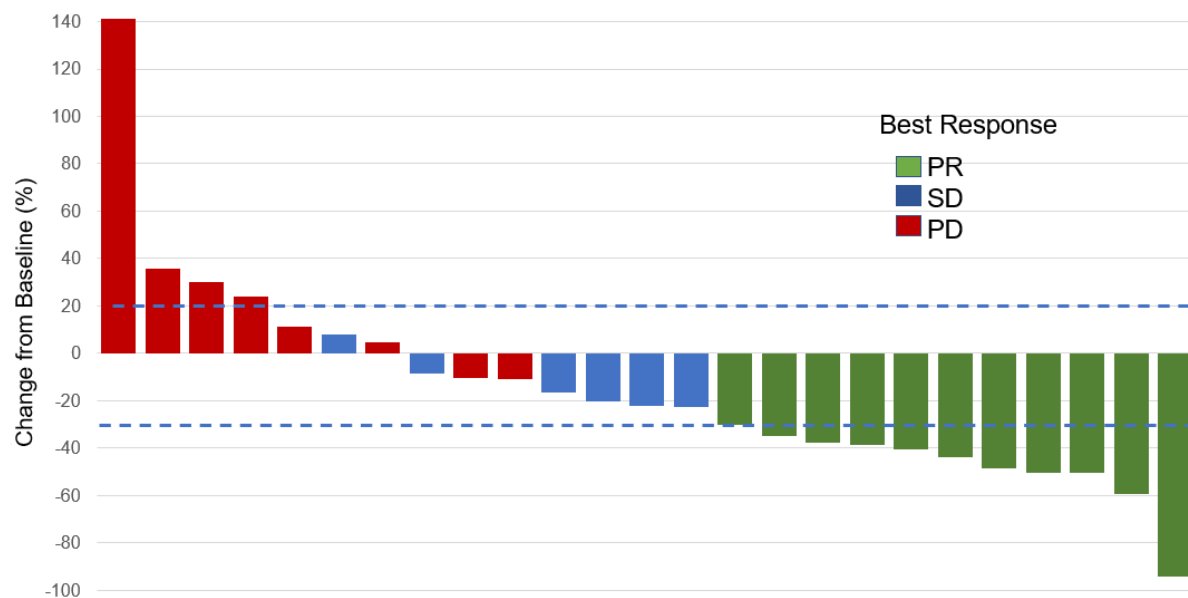
- Data Cutoff: October 7, 2023

Response	Evaluable Patients* (N = 25) n (%)
<b>Best Overall Response</b>	
Complete Response	0
Partial Response	11 (44%)
Stable Disease	6 (20%)
Progressive Disease	8 (32%)
<b>ORR % (90% CI)</b>	<b>44% (27% to 62%)</b>

Median Duration of Response = 15.6 months

\*Two of 27 total patients enrolled were non-evaluable for response

## Best Change in Target Lesions from Baseline (N=25)



# FULVESTRANT/ABEMACICLIB

## Responses by Clinical Characteristics

- **Grade**
  - All responses in endometrioid tumors
    - G1 endometrioid (7/8, ORR=87.5%)
    - G2 endometrioid (4/10, ORR=40%)
    - 1 subsequent PR post data cutoff in G3 endometrioid tumor (1/4, ORR=25%)
- **PR status**
  - PR positive (8/17, ORR=47%)
  - PR negative (0/1, ORR=0%)
  - 7 with unknown PR status
- **Hormonal therapy**
  - No prior hormonal (8/16, ORR=50%)
  - Prior hormonal (3/9, ORR=33%)
- **Prior systemic therapy (non hormonal)**
  - 1 prior (5/13, ORR 38%)
  - 2 prior (6/14, ORR 43%)

## Responses across EC Molecular Subtypes

- CN-L/NSMP more likely to have a response than other molecular subtypes (ORR 59% v 13%, p=0.042)
- Among 4 patients with MSI-H tumors, 1 had PR, 3 derived no clinical benefit.

Characteristic	Evaluable Patients, N=25	OR		p-value
		Yes	No	
Molecular Subtype				0.090
CN-L/NSMP	17	10(59)	7(41)	
CN-H/TP53abn	4	0(0)	4(100)	
MSI-H	4	1(25)	3(75)	
POLE	0	-	-	

Characteristic	Evaluable Patients, N=25	OR		p-value
		Yes	No	
Molecular Subtype				0.042
CN-L/NSMP	17	10(59)	7(41)	
CN-H+MSI-H	8	1(13)	7(88)	

**No association** between presence of PI3K pathway gene (*PTEN*, *PIK3CA* and *PIK3R1*), *KRAS*, or *CTNNB1* mutations, respectively, with response to abemaciclib/fulvestrant



# BrUOG 354

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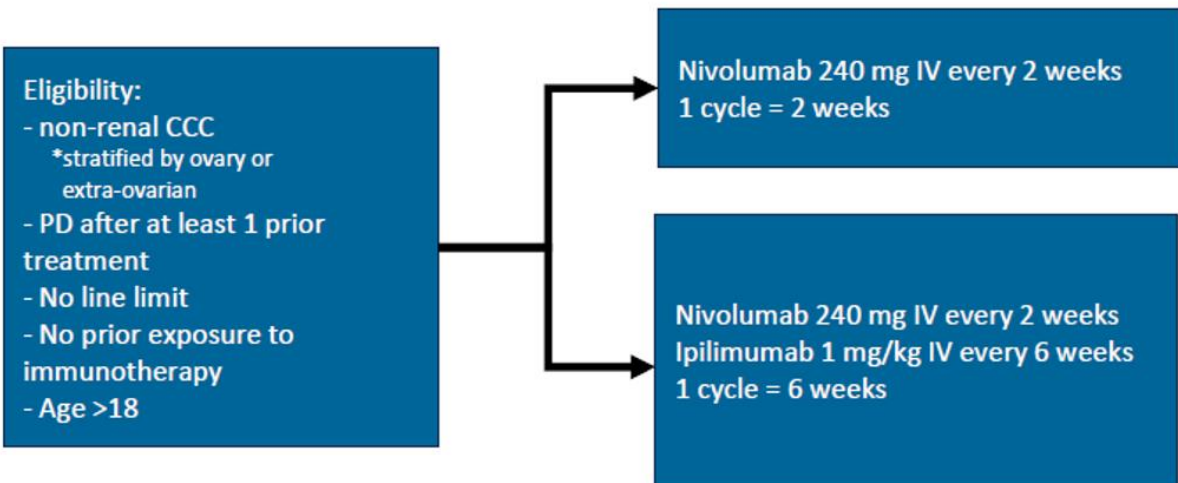
## Final results of BrUOG 354:

A randomized phase II trial of nivolumab alone or in combination with ipilimumab for people with ovarian and other extra-renal clear cell carcinomas

Don S. Dizon, Cara Amanda Mathews, Shannon MacLaughlan David, Jason T Machan, Matthew James Hadfield, Eric I Marks, Rani Bansal, Christine McGinn, Faith Hassinger, Denise Luppe, Janine Grigelevich, Kelly A Mitchell, Adam Braga, Ashlee Sturtevant, Roxanne Wood, Ursula A. Matulonis, Alexi A. Wright, Susana M. Campos, Michael J. Birrer

Brown University Oncology Group; Lifespan Cancer Institute, Rhode Island Hospital, Providence, RI; Women and Infants Hospital, Providence, RI; University of Illinois at Chicago, Chicago, IL; Rhode Island Hospital/Alpert Medical School of Brown University, Providence, RI; Rhode Island Hospital, Brown University, Providence, RI; Boston University Medical Campus, Boston, MA; Duke Cancer Institute, Durham, NC; Lifespan Cancer Institute, Providence, RI; Lifespan, Providence, RI; Brown University Oncology Research Group, Providence, RI; Dana-Farber Cancer Institute, Boston, MA; University of Arkansas for Medical Sciences, Little Rock, AR

# BrUOG 354



> Scans done every 8 weeks  
> No cap on treatment duration  
> Treatment until PD or unacceptable toxicity

Data cut-off: December 31, 2023  
Median Follow-up: 11.3 months (range, 1.6 to 46.4 months)

## Randomized, non-comparative, phase 2

Primary Objective: Overall Response Rate (ORR)

Secondary Objectives: PFS and OS, Adverse Events

Exploratory: Molecular characteristics for response or non-response

## Demographics, n=44

	Nivolumab (n=14)	Nivolumab/Ipilimumab (n=30)	Total (n=44)
Age (median, range)	54.5 (18-74)	58 (22-75)	57 (18-75)
Diagnosis (n,%)			
Ovarian	11 (78.6)	25 (83.3)	36 (81.2)
Uterine	3 (21.4)	3 (10)	6 (13.6)
Other	0	2 (6.7)	2 (4.5)
Race (n, %)			
White	12 (85.7)	21 (70)	33 (75)
Black	1 (7.1)	3 (10)	4 (9)
Asian	1 (7.1)	1 (3.3)	2 (4.5)
Not Answered	0	5 (16.6)	5 (11.4)
Ethnicity (n,%)			
Hispanic	1 (7.1)	4 (13.3)	5 (11.4)
Not Hispanic	12 (85.7)	22 (73.3)	34 (77.3)
Not Answered	1 (7.1)	4 (13.3)	5 (11.4)
Prior lines (median, range)	1 (1-7)	1.5 (1-4)	

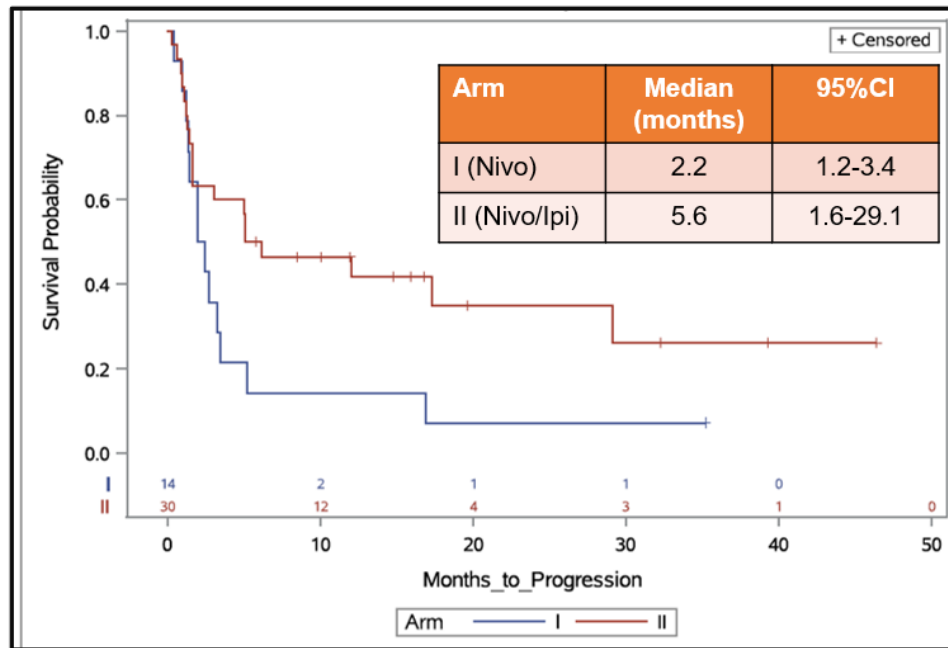
## BrUOG 354

## Response Data

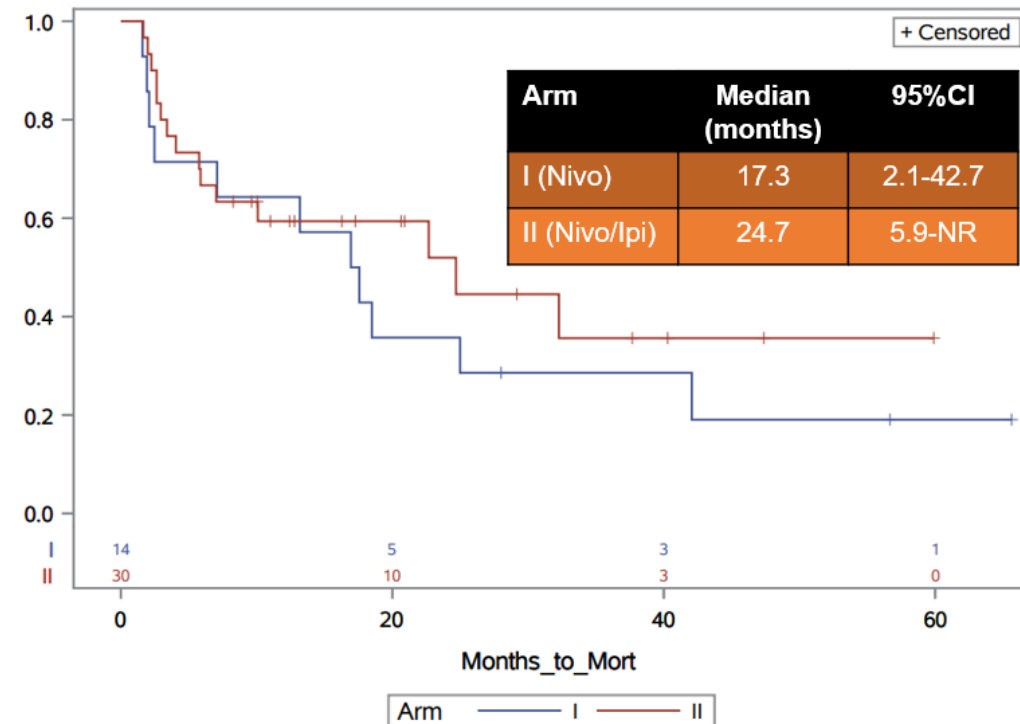
	<b>Nivolumab n=14</b>	<b>Nivolumab/Ipilimumab n=30</b>
<b>Complete Response (n, %)</b>	<b>0</b>	<b>5 (16.7)</b>
<b>Partial Response (n,%)</b>	<b>2 (14.3)</b>	<b>5 (16.7)</b>
<b>Complete + Partial Response</b>	<b>2 (14.3)</b>	<b>10 (33.3)</b>
Stable Disease	5 (35.7)	10 (33.3)
Progression	7 (50)	10 (33.3)
Duration of Response (months, median ± SD)	30.6 ± 4.5	22.4 ± 11.8

# BrUOG 354

## Progression-Free Survival



## Overall Survival



- For people with ovarian or gynecologic clear cell carcinoma, the clinical activity and survival outcomes are greater when nivolumab is given with ipilimumab vs. as a single agent.
- There were no new safety signals identified among volunteers with gynecologic clear cell cancer treated with immunotherapy.

A grayscale photograph of a rural landscape with rolling hills, fields, and a farm with a silo and barn in the center. The text "OVARIAN CANCER" is overlaid in the middle of the image.

# OVARIAN CANCER

# CARACO

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Nantes  
Université

## Omission of lymphadenectomy in advanced epithelial ovarian cancer patients treated with primary or interval cytoreductive surgery after neoadjuvant chemotherapy: **the CARACO phase III Randomized Trial**

Jean-Marc Classe, Campion L, Lecuru F, Vergote I, Jankowski C, Werner R, Pomel C, Houvenaeghel G, Dupré PF, Mathevet P, Villet R, Joly F, Berton D, Debeaupuis E, Frenel JS, Loac C

2024 ASCO<sup>®</sup>  
ANNUAL MEETING

#ASCO24

PRESENTED BY: Jean-Marc Classe, Omission of lymphadenectomy in advanced epithelial ovarian cancer patients: the CARACO phase III Randomized Trial

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CLINICAL ONCOLOGY  
KNOWLEDGE CONQUERS CANCER

# CARACO

## CARACO trial (NCT01218490): Multicenter randomized phase III trial



Epithelial ovarian cancer  
Figo stage III-IVA  
No suspicious retroperitoneal lymph node  
Optimal surgery achievable (Primary or ICS)  
Residual <1cm

Median laparotomy

Randomization during surgery

Stratification:

- Center
- Primary surgery or Interval surgery

R  
1:1  
N=450

Surgery with RPL

Surgery without RPL

After surgery /SOC  
Last cycles of chemotherapy  
Maintenance treatments

Keys: R: randomization, RPL: Retroperitoneal Lymphadenectomy, ICS: Interval Cytoreductive Surgery, SOC: Standard Of Care

- A superiority, randomized trial
- Primary endpoint: Progression Free Survival
- Secondary endpoints: OS, safety, surgical outcome, QoL

# CARACO

Characteristics	No RPL (n=193)	RPL (n=186)
Surgery to not any residual, n (%)	161 (85.6)	158 (88.3)
Resected lymph nodes total (median IQR)		28 (19-36)
Para aortic LN (median IQR)		12 (7-18)
Pelvic LN (median IQR)		13 (9-19)
Patients with $\geq 1$ involved LN		81(43%)
Median duration of surgery (minutes)	240 (180-290)	300 (240-360)
Maintenance with Bevacizumab after surgery	46 (23.8)	44 (23.7)
Surgical strategy	PS: 50/ ICS: 143	PS: 40/ICS:146

Keys:RPL: Retroperitoneal Lymphadenectomy IQR: Inter Quartile Range, LN: Lymph Node, PS: Primary Surgery, ICS: Interval Cytoreductive Surgery

## CARACO: Severe morbidity and mortality (within 30 days after surgery)\*

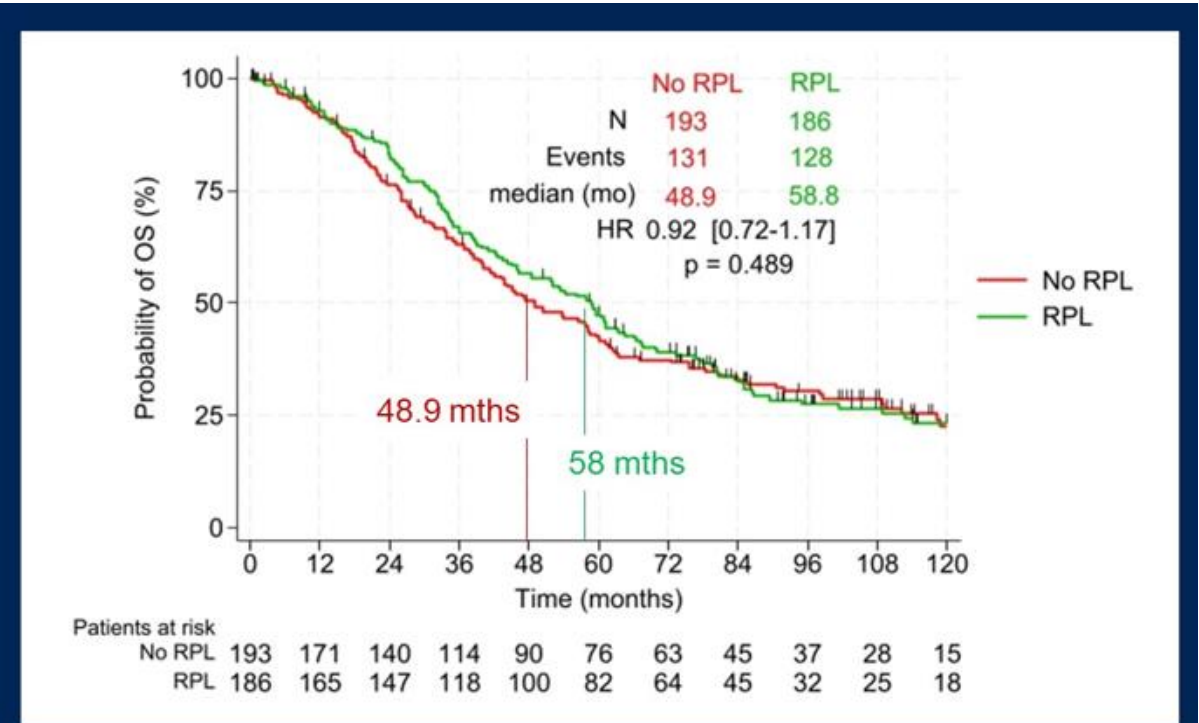
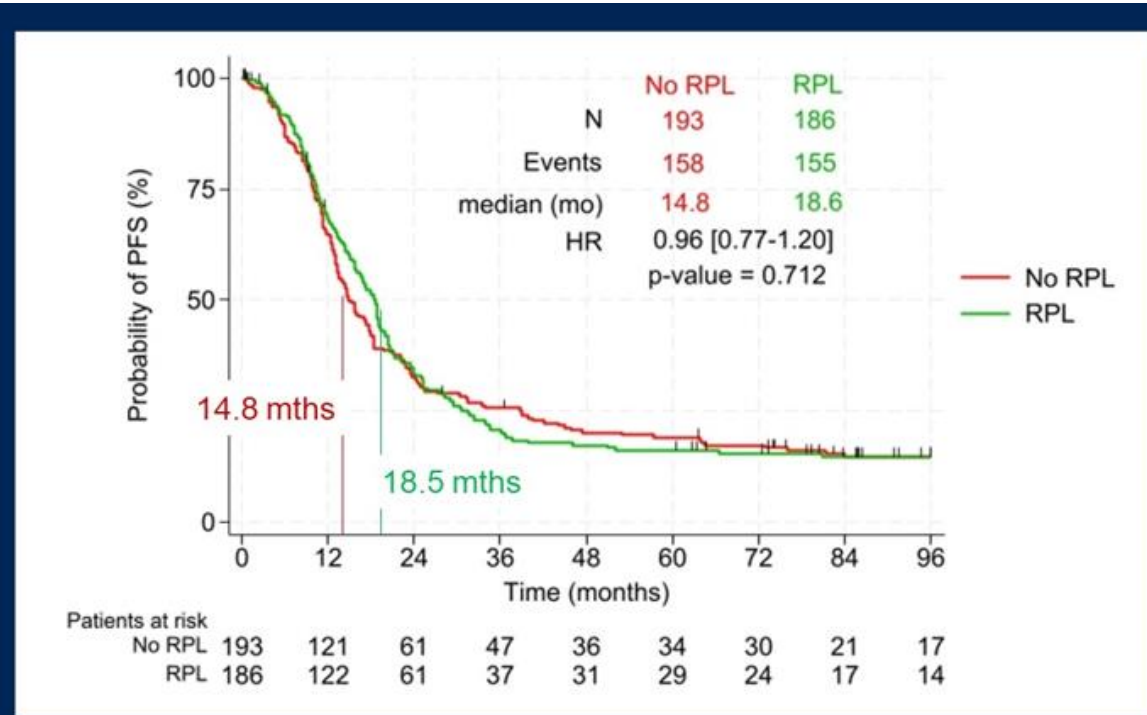
No. of patients (%)	No RPL (n=193)	RPL (n=186)	p
Transfusion or blood loss	57 (29.7)	72 (39.3)	<b>P=0.049</b>
Re intervention	6 (3.1)	15 (8.3)	<b>P=0.031</b>
Urinary injury	0 (0.0)	7 (3.8)	<b>P=0.006</b>
Digestive fistula	2 (1.1)	4 (2.2)	NS
Phlebitis – Pulmonary embolism	7 (3.7)	3 (1.6)	NS
Mortality	1 (0.5)	2 (1.1)	NS



# CARACO

Primary endpoint (PFS, ITT Population)

Secondary endpoint (OS, ITT Population)



- Adding retroperitoneal lymphadenectomy to complete cytoreductive surgery, in primary surgery or in interval surgery after neoadjuvant chemotherapy in patients treated for an advanced ovarian cancer, with no suspicious nodes, does not improve progression free survival nor overall survival

# NEO

2024 ASCO<sup>®</sup>  
ANNUAL MEETING



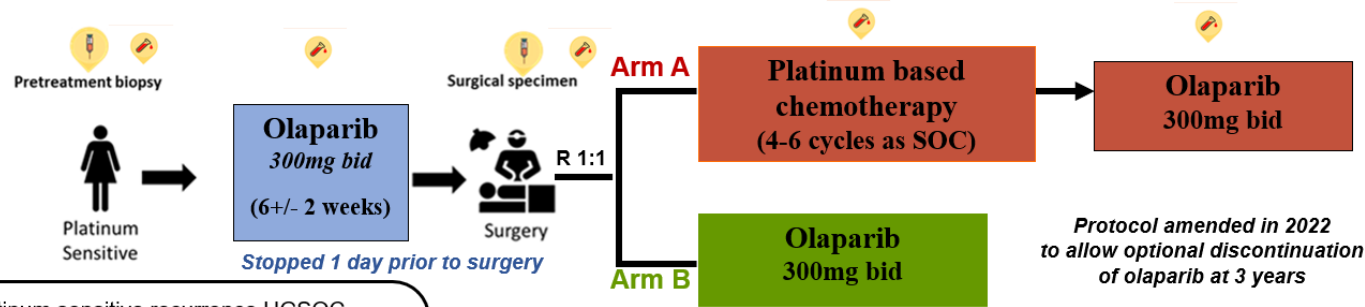
## ***Phase II randomized multi-centre study of neoadjuvant olaparib in patients with platinum sensitive relapsed high grade serous ovarian cancer: The NEO Trial***

Stephanie Lheureux, Taymaa May, Michelle K. Wilson, Diane M. Provencher, Susie Lau, Prafull Ghatage, Johanne I Weberpals, Susana N. Banerjee, Iain A. McNeish, Neesha C. Dhani, Sarah Ferguson, Genevieve Bouchard-Fortier, Trevor John Pugh, Xiang Y Ye, Sarah Garisto, Judy Quintos, Janelle Ramsahai, Horace Wong, Valerie Bowering, Amit M. Oza

# NEO

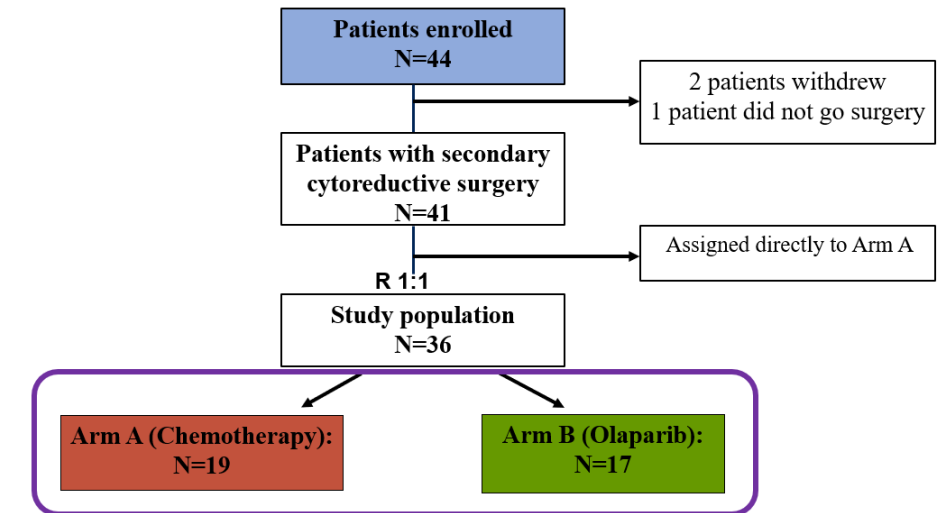
## Study Design

A phase II, Open label, Multi-site, Randomized study



*If PD during neo-adjuvant, no randomization  
→ Chemotherapy (Arm A)*

*Protocol amended in 2022  
to allow optional discontinuation  
of olaparib at 3 years*



Platinum sensitive recurrence HGSOc  
 ≥6 months following previous platinum  
 PARP inhibitor naïve  
 Suitable for secondary cytoreductive surgery  
 Normal organ and Marrow function  
 (Hb ≥ 100g/L; Plat ≥ 100; CI creat ≥ 60mL/min)

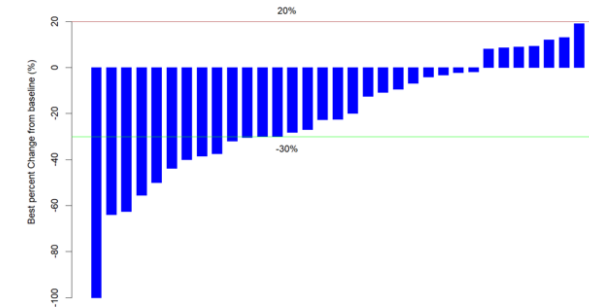
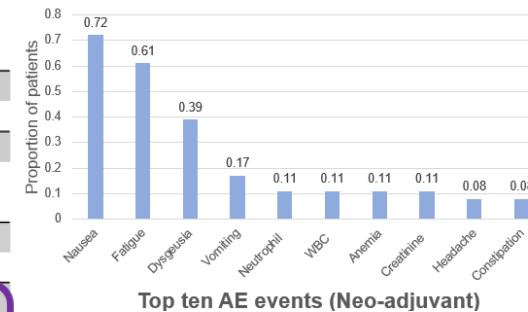
## Study Objectives

- **Primary**
  - To assess the tumor biological effects of a short pre-operative course of olaparib in patients with platinum sensitive relapsed ovarian cancer –  
 Effects measured by the degree of PARP-1 inhibition
  - To generate initial clinical efficacy data
- **Secondary**
  - Safety and tolerability of pre-operative olaparib
  - Response rate to olaparib in the neoadjuvant period
  - Survival outcomes with olaparib versus platinum based chemotherapy

# NEO

## Neo-adjuvant olaparib – Safety & Efficacy (N=36)

- **Olaparib median duration** : 40 (34-48) days
- **Safety**: No grade  $\geq 3$  AEs  
2 patients (5%) had at least one dose modification (dose reduction & hold)
- **Objective Response Rate**: 29% (10/35 – 1 missing)



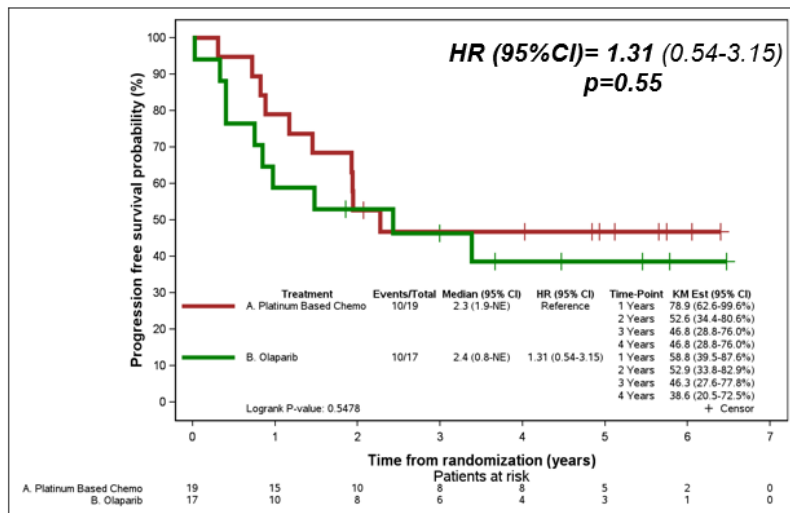
	<i>A. Platinum Based Chemotherapy (N = 19)</i>	<i>B. Olaparib (N = 17)</i>	<i>Total (N = 36)</i>
<b>Age at enrollment (year)</b>			
Median (Range)	59.0 (39.0 – 80.0)	59.0 (44.0 – 84.0)	59.0 (39.0 – 84.0)
<b>Prior Neoadjuvant Chemotherapy</b>			
No	12 (63.16%)	15 (88.24%)	27 (75.00%)
Yes	7 (36.84%)	2 (11.76%)	9 (25.00%)
<b>Number of Prior Line of Therapy</b>			
Median (Range)	1.0 (1.0 – 3.0)	1.0 (1.0 – 4.0)	1.0 (1.0 – 4.0)
<b>Germline <i>BRC1</i> Status</b>			
Mutated	7 (36.84%)	4 (23.53%)	11 (30.56%)
Wild-Type	5 (26.32%)	12 (70.59%)	17 (47.22%)
Unknown	7 (36.84%)	1 (5.88%)	8 (22.22%)
<b>Race</b>			
White	13 (68.42%)	13 (76.47%)	26 (72.22%)
Other	6 (31.58%)	4 (23.53%)	10 (27.78%)

## Surgery Period – Safety & Efficacy (N=36 patients)

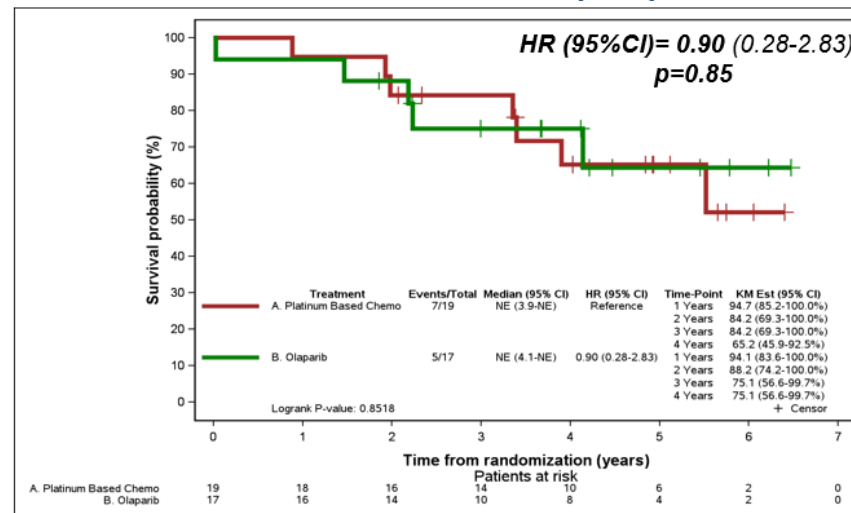
- **Type of surgery**: 78% Laparotomy
- **Objective Response Rate**: 94% - Complete Response: 74% (26 patients)
- **Median time to start adjuvant therapy**: 1.2 (0.5-3.4) months
- **Surgical complications**: Grade 3 reported surgical related AE – All recovered
  - Abscess: 2 patients
  - Perforation (colonic – bladder – enterotomy): 3 patients
  - Thrombo-embolic events: 2 patients

# NEO

## Progression Free Survival (PFS)



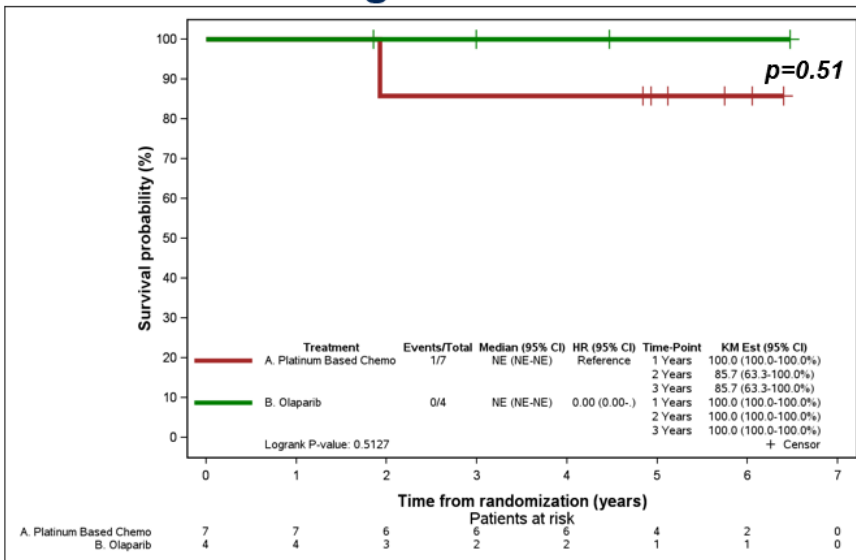
## Overall Survival (OS)



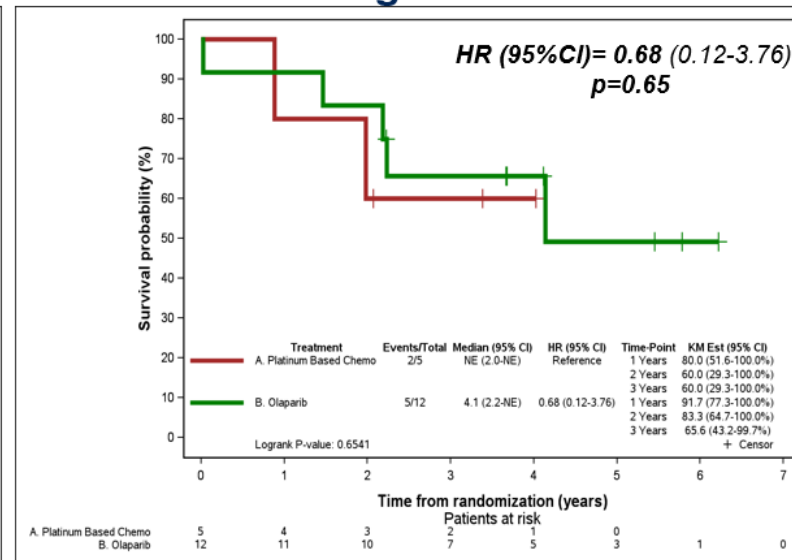
### Survival Outcomes

- ITT Population (N=36)

## OS in gBRCA mut



## OS in gBRCA WT



### Exploratory Outcomes

- gBRCA status

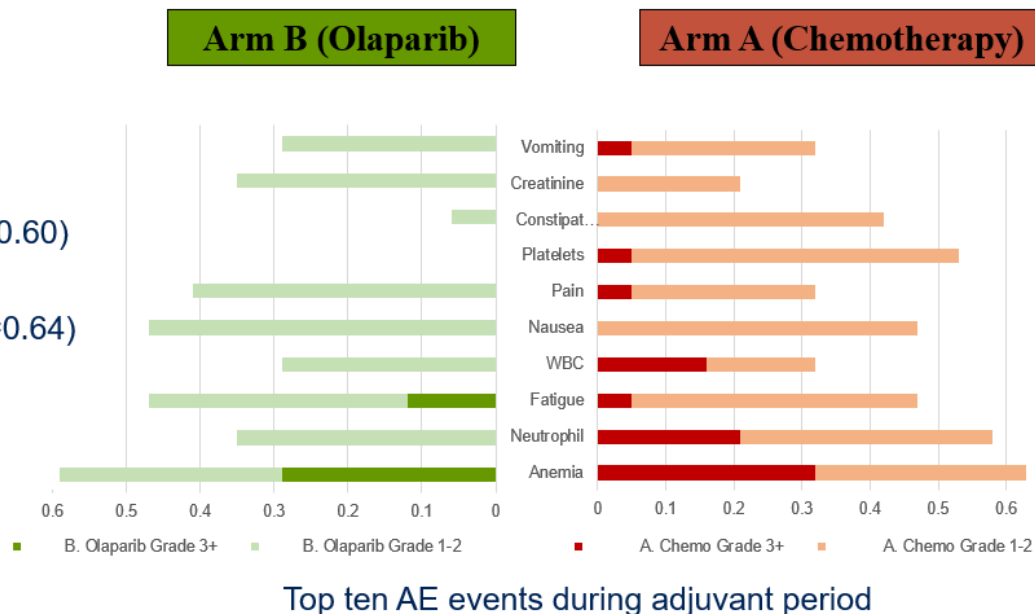
# NEO

## Adjuvant Therapy post randomization

**Safety:** No reported MDS/AML

### Treatment Exposure

- Median cycles  
Arm A= 21.5 – Arm B= 18 cycles (p=0.60)
- Median time on adjuvant olaparib  
Arm A= 13.8 – Arm B= 14.7 mths (p=0.64)
- Dose Modification  
Arm A = 15 pts (79%) to chemo  
12 pts (63%) to olaparib  
Arm B: 14 pts (82%)
- 13 pts off maintenance without progression

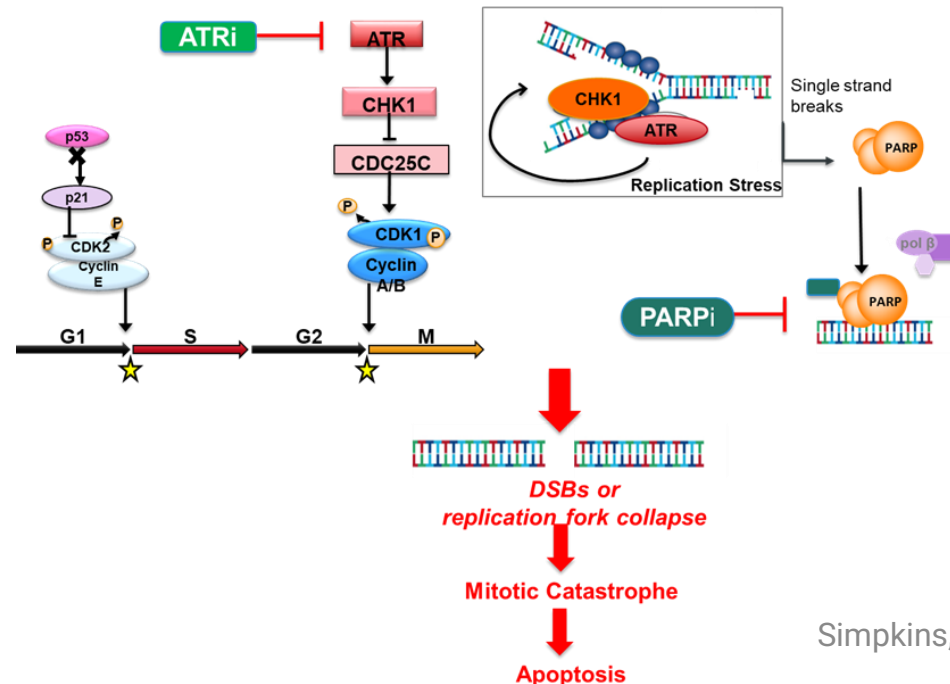


- In patients with complete disease resection after secondary cytoreductive surgery, olaparib alone was as effective as chemotherapy followed by olaparib and associated with less toxicity.
- This study suggests the potential for a de-escalation approach with targeted therapy in this selected population.

# CAPRI

## Combination ATR and PARP Inhibitor (CAPRI): A phase 2 study of ceralasertib plus olaparib in patients with recurrent, platinum-sensitive epithelial ovarian cancer (Cohort A).

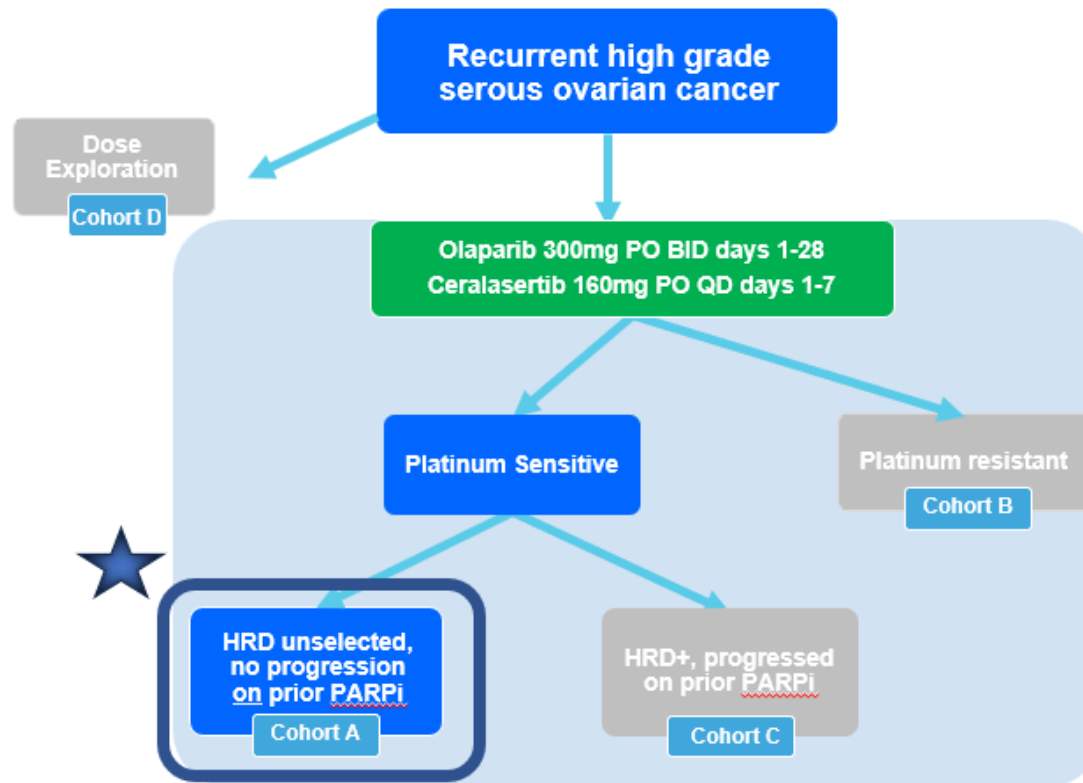
Fiona Simpkins, Dimitrios Nasioudis, Stephanie L. Wethington, Lainie P. Martin, Janos L. Tanyi, Nawar A. Latif, Drew A. Torigian, Dalia K. Omran, Diego Rodriguez, Simon Smith, Emma Dean, Susan M. Domchek, Ronny Drapkin, le-Ming Shih, Eric J. Brown, Wei-Ting Hwang, Deborah K. Armstrong, Geoffrey Shapiro, Stephanie Gaillard, Robert L. Giuntoli II, Joyce F. Liu



*Hypothesis: targeting 2 unique DNA repair pathways by combination PARPi and ATRi, will lead to increased DSB and prevent or overcome PARPi resistance*

# CAPRI

## Combination ATR and PARP Inhibition (CAPRI) Phase I/II, Cohort A



### Specific Aim (Cohort A)

Safety and objective response rates (ORR) of combination of olaparib (PARPi) and ceralasertib (ATRi) in platinum sensitive recurrent HGSOC, HRD unselected, who had not progressed on prior PARPi

### Study Endpoints:

**Primary endpoints:** ORR, toxicity

**Secondary endpoint:** PFS



# CAPRI

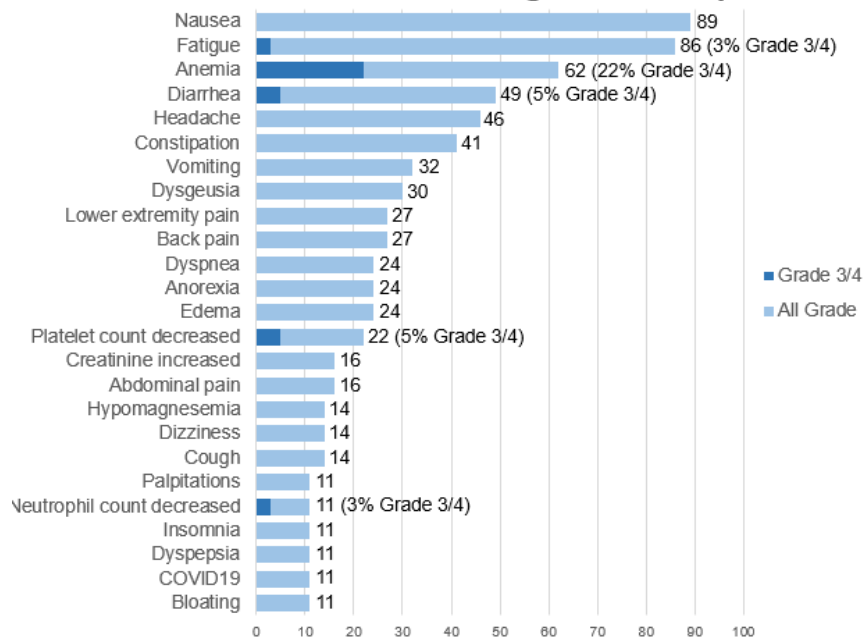
## Demographics for Cohort A CAPRI

Characteristic	N=37 N (%) or median (min - max)
Age, years	69 (48-80)
Race	
Non-Hispanic White	34 (91.9%)
Non-Hispanic Black	2 (5.4%)
Asian	1 (2.7%)
ECOG Performance Status	
0	23 (62.2%)
1	14 (37.8%)
Lines of prior systemic treatment	
1	21 (56.8%)
2	11 (29.7%)
≥3	5 (13.5%)
Prior PARPi	2 (5.4%)
Platinum-free interval	
6-12 months	14 (37.8%)
>12 months	23 (62.2%)
Germline testing results (n=37)	
Germline pathogenic/Likely pathogenic gene variant present*	3 (8.1%)
No pathogenic mutation detected	33 (89%)
Not performed	1 (2.7%)
HRD Testing Status (n=34)	
Homologous recombination deficient (HRD) test positive (Myriad MyChoice >42)	8 (23.5%)
Loss of heterozygosity (LOH) high (>16%) (Caris Life Sciences)	2 (5.9%)
Homologous recombination deficient (HRD) test negative (Myriad MyChoice <42)	20 (58.8%)
Not performed	4 (11.8%)

\*1 BRCA2, 1 BRIP1, 1 RAD51C

## Combination ceralasertib + olaparib was well tolerated

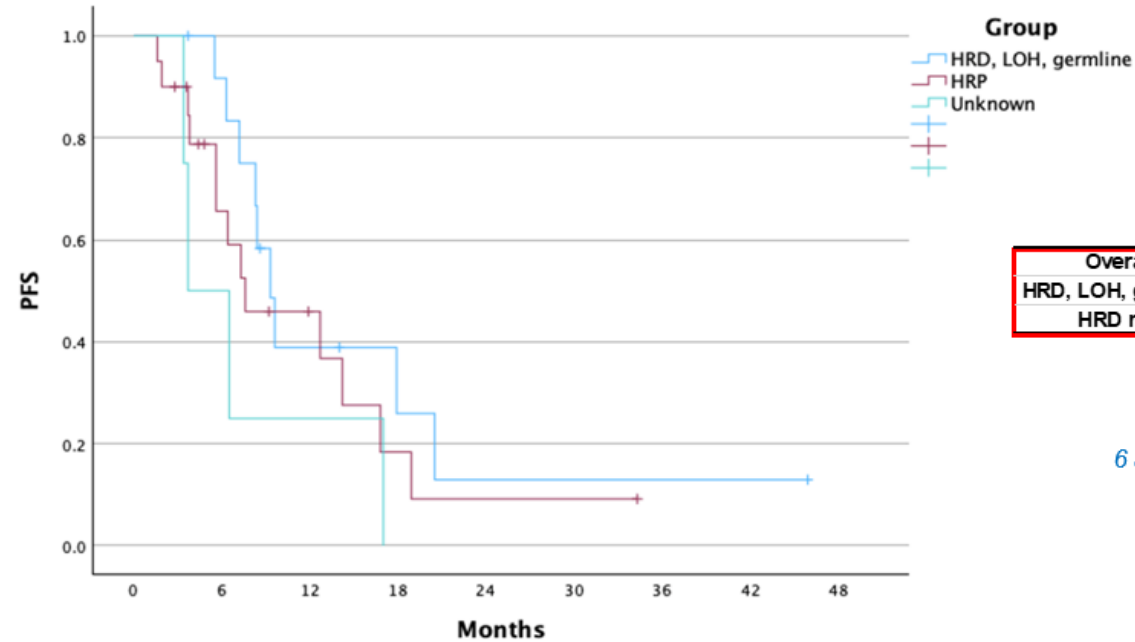
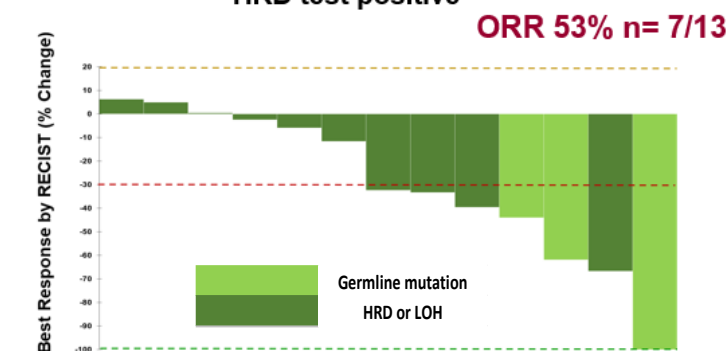
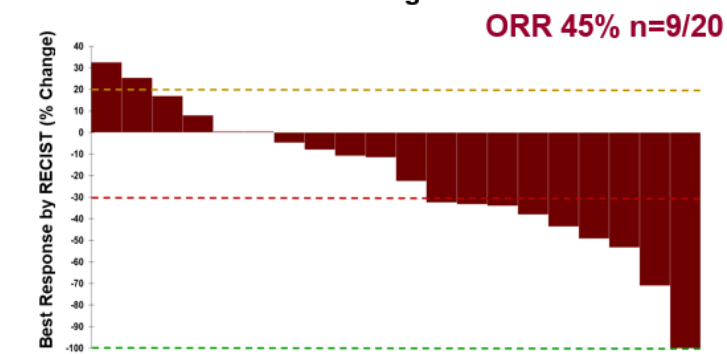
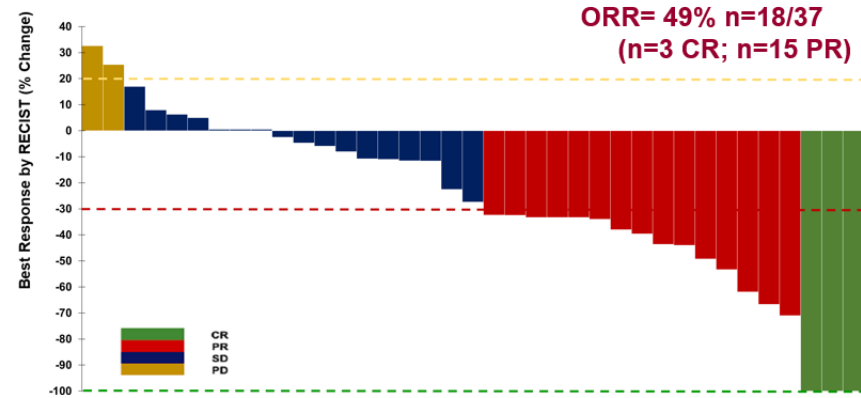
### Treatment-related AEs occurring in ≥10% of pts



	Number of pts (%)
<b>Dose reduction due to AE (Total)</b>	<b>16 (43%)</b>
Olaparib dose reduction	16 (43%)
Ceralasertib dose reduction	0 (0%)
<b>Dose discontinuation due to AE</b>	<b>1 (3%)</b>
	(G2 nausea/fatigue)

# CAPRI

## Median progression free survival for Cohort A



	mPFS (months)	95% CI
Overall	8.4	5.79-11.01
HRD, LOH, germline	9.3	7.51-11.09
HRD neg	7.6	.684-14.51

6 active patients still on treatment

Combination ceralasertib with olaparib demonstrates clinical activity in platinum sensitive recurrent HGSOC, irrespective of HRD status

HRD status may not predict response to PARPi-ATRi combinations

Combination is tolerable with toxicity similar to that of olaparib monotherapy

# Review

## Cervical Cancer

- Adjuvant Chemotherapy following Concurrent Chemoradiation (CRT) in High-Risk Early-Stage Cervical Carcinoma Patients Following Radical Hysterectomy: Results of *NRG Oncology/RTOG 0724/GOG-0724*

## Endometrial Cancer

- Long-term Follow-up of Selinexor Maintenance for Patients with *TP53*wt Advanced or Recurrent Endometrial Cancer: A prespecified Subgroup Analysis From the Phase 3 *ENGOT-EN5/GOG-3055/SIENDO Study*
- A Phase II Study of *Fulvestrant plus Abemaciclib* in Hormone-Receptor Positive Advanced or Recurrent Endometrial Cancer
- Final results of *BrUOG 354*. A randomized phase II trial of nivolumab alone or in combination with ipilimumab for people with ovarian or other extra-renal clear cell carcinomas

## Ovarian Cancer

- Omission of lymphadenectomy in advanced epithelial ovarian cancer patients treated with primary or interval cytoreductive surgery after neoadjuvant chemotherapy: the CARACO phase III randomized trial
- Phase II randomized multi-centre study of neoadjuvant olaparib in patients with platinum sensitive relapsed high grade serous ovarian cancer: *The NEO Trial*
- Combination ATR and PARP Inhibitor (*CAPRI*): A phase 2 study of ceralasertib plus olaparib in patients with recurrent, platinum-sensitive epithelial ovarian cancer (Cohort A)

A grayscale photograph of a rural landscape with rolling hills, fields, and a farm with a silo in the center. The image is faded and serves as a background for the text.

**QUESTIONS?**