A Conversation with the Investigators: Ovarian Cancer

Wednesday, July 7, 2021 5:00 PM – 6:00 PM ET

Faculty Michael J Birrer, MD, PhD Kathleen Moore, MD Richard T Penson, MD, MRCP



Faculty



Michael J Birrer, MD, PhD Vice Chancellor, UAMS Director, Winthrop P Rockefeller Cancer Institute Director, Cancer Service Line University of Arkansas for Medical Sciences Little Rock, Arkansas



Richard T Penson, MD, MRCP
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Kathleen Moore, MD

The Virginia Kerley Cade Endowed Chair in Cancer Development Associate Director, Clinical Research Director, Oklahoma TSET Phase I Program Stephenson Cancer Center Associate Professor, Section of Gynecologic Oncology Director, Gynecologic Oncology Fellowship Department of Obstetrics and Gynecology University of Oklahoma Health Sciences Center Oklahoma City, Oklahoma



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Dr Love — Disclosures

Dr Love is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following companies: AbbVie Inc, Adaptive Biotechnologies Corporation, Agios Pharmaceuticals Inc, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Daiichi Sankyo Inc, Eisai Inc, Epizyme Inc, Exact Sciences Inc, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, Genentech, a member of the Roche Group, Gilead Sciences Inc, GlaxoSmithKline, Grail Inc, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Merck, Novartis, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sanofi Genzyme, Seagen Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Oncology, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc and Verastem Inc.



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Dr Birrer — Disclosures

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Data and Safety Monitoring Board/Committee	VBL Therapeutics



Dr Moore — Disclosures

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Contracted Research	PTC Therapeutics, US Department of Defense

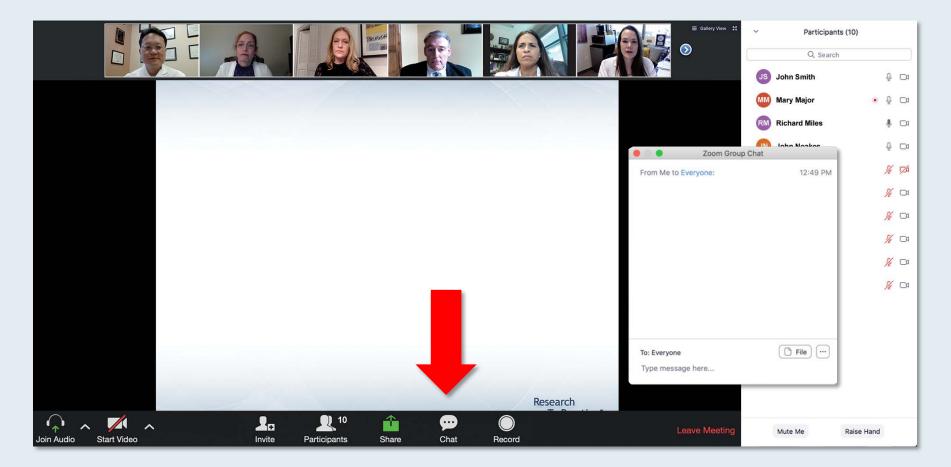


Dr Penson — Disclosures

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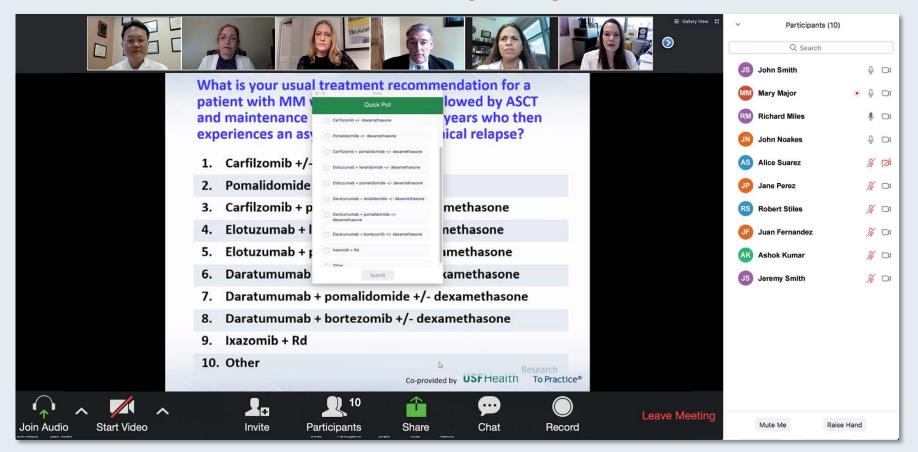
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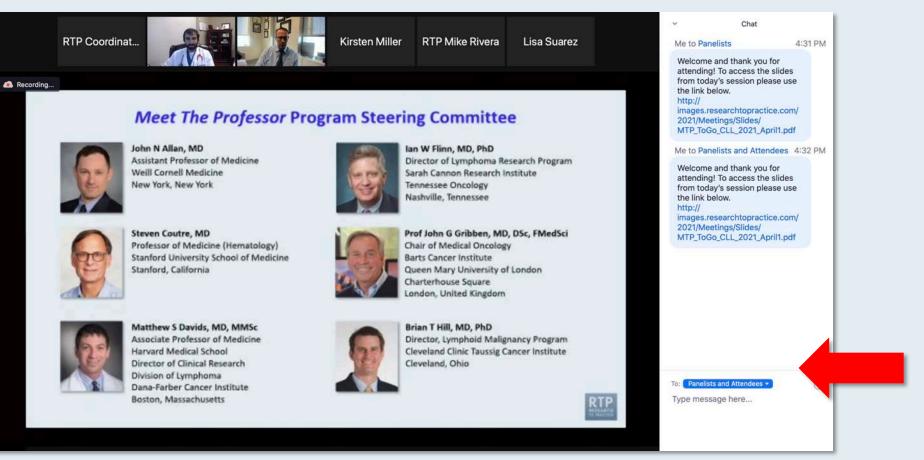


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Expand chat submission box



Drag the white line above the submission box up to create more space for your message.



Familiarizing Yourself with the Zoom Interface

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Press Command (for Mac) or Control (for PC) and the + symbol. You may do this as many times as you need for readability.



ONCOLOGY TODAY WITH DR NEIL LOVE

PARP Inhibitors in Ovarian Cancer

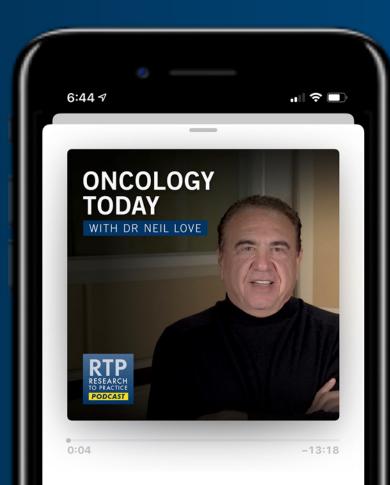


DR ANTONIO GONZÁLEZ-MARTÍN Clínica universidad de navarra









Dr Antonio González-Martín PARP Inhi Oncology Today with Dr Neil Love —

(15)

13 Exciting CME/MOC Events You Do Not Want to Miss

A Live Webinar Series Held in Conjunction with the 2021 ASCO Annual Meeting

Ovarian Cancer Wednesday, July 7 5:00 PM – 6:00 PM ET

Hormonal Therapy for Prostate Cancer Monday, July 12 5:00 PM – 6:00 PM ET

Chimeric Antigen Receptor T-Cell Therapy Tuesday, July 13 5:00 PM – 6:00 PM ET

Acute Myeloid Leukemia and Myelodysplastic Syndromes Wednesday, July 14 5:00 PM – 6:00 PM ET

Metastatic Castration-Resistant Prostate Cancer Tuesday, July 20 5:00 PM – 6:00 PM ET Bladder Cancer Wednesday, July 21 5:00 PM – 6:00 PM ET

Endometrial and Cervical Cancers Monday, July 26 5:00 PM – 6:00 PM ET

Targeted Therapy for Non-Small Cell Lung Cancer Tuesday, July 27 5:00 PM – 6:00 PM ET

Immunotherapy and Other Nontargeted Approaches for Lung Cancer Wednesday, July 28 5:00 PM – 6:00 PM ET

Mantle Cell, Diffuse Large B-Cell and Hodgkin Lymphoma Monday, August 2 5:00 PM – 6:00 PM ET Colorectal and Gastroesophageal Cancers Tuesday, August 3 5:00 PM – 6:30 PM ET

Hepatocellular Carcinoma and Pancreatic Cancer Wednesday, August 4 5:00 PM – 6:30 PM ET

Head and Neck Cancer Wednesday, August 11 5:00 PM – 6:00 PM ET



A Conversation with the Investigators: Hormonal Therapy for Prostate Cancer

Monday, July 12, 2021 5:00 PM – 6:00 PM ET

Faculty Simon Chowdhury, MD, PhD Tanya B Dorff, MD Matthew R Smith, MD, PhD



A Conversation with the Investigators: Chimeric Antigen Receptor T-Cell Therapy in Hematologic Cancers

> Tuesday, July 13, 2021 5:00 PM – 6:00 PM ET

Faculty Caron Jacobson, MD David G Maloney, MD, PhD Nikhil C Munshi, MD



A Conversation with the Investigators: Acute Myeloid Leukemia and Myelodysplastic Syndromes

> Wednesday, July 14, 2021 5:00 PM – 6:00 PM ET

Faculty Courtney D DiNardo, MD, MSCE Gail J Roboz, MD Eytan M Stein, MD



A Conversation with the Investigators: Metastatic Castration-Resistant Prostate Cancer

> Tuesday, July 20, 2021 5:00 PM – 6:00 PM ET

Faculty

Emmanuel S Antonarakis, MD Johann de Bono, MBChB, MSc, PhD Julie N Graff, MD



A Conversation with the Investigators: Bladder Cancer

Wednesday, July 21, 2021 5:00 PM – 6:00 PM ET

Faculty Petros Grivas, MD, PhD Daniel P Petrylak, MD Arlene Siefker-Radtke, MD



Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with Renal Cell Carcinoma

> Thursday, July 22, 2021 5:00 PM – 6:00 PM ET

Faculty David F McDermott, MD



A Conversation with the Investigators: Endometrial and Cervical Cancers

Monday, July 26, 2021 5:00 PM – 6:00 PM ET

Faculty Mansoor Raza Mirza, MD David M O'Malley, MD Angeles Alvarez Secord, MD, MHSc



Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 24 hours.



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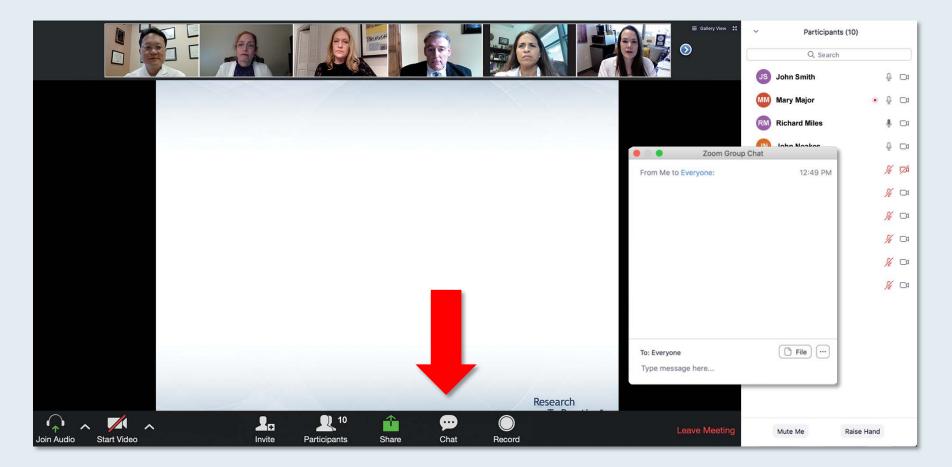


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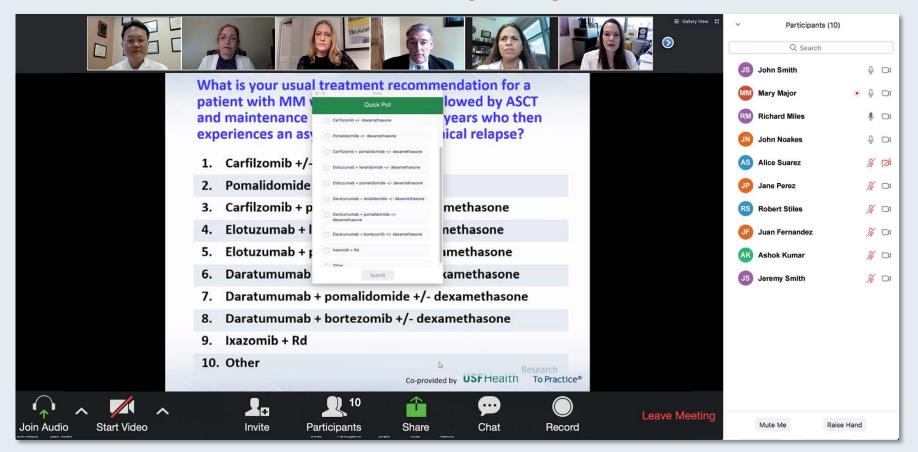
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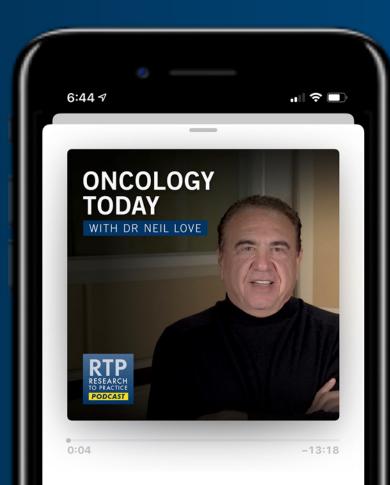


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Agenda

Module 1: Up-Front Management of Ovarian Cancer (OC), Including Maintenance

- Treatment strategies based on germline and somatic genomic assays
- ASCO 2021 updates for the SOLO-1, PRIMA and PAOLA-1 trials
- Findings from the OVARIO trial: Niraparib/bevacizumab maintenance therapy

Module 2: Recurrence, Toxicity and Resistance to PARP Inhibitors

- Selection of PARP inhibitor for patients with recurrent OC
- ARIEL4: Rucaparib versus chemotherapy for relapsed, BRCA-mutated OC
- Mechanisms of resistance to PARP inhibitor therapy

Module 3: Mirvetuximab Soravtansine

- Scientific rationale for targeting folate receptor alpha in OC
- Mirvetuximab soravtansine with or without bevacizumab for platinum-resistant OC
- Ongoing trials evaluating mirvetuximab soravtansine for platinum-resistant OC: MIRASOL, SORAYA

Module 4: Immune Checkpoint Inhibitors in OC

- Biologic rationale for combining PARP inhibitors with anti-PD-1/PD-L1 antibodies
- Ongoing Phase III trials evaluating immune checkpoint inhibitors with PARP inhibitors for advanced OC











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

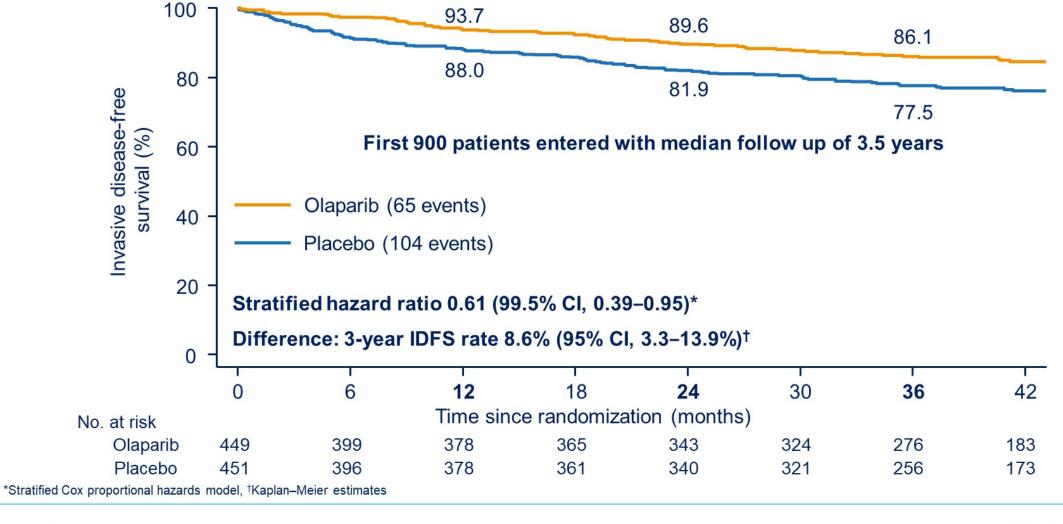
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OlympiA: Invasive disease-free survival (mature cohort)



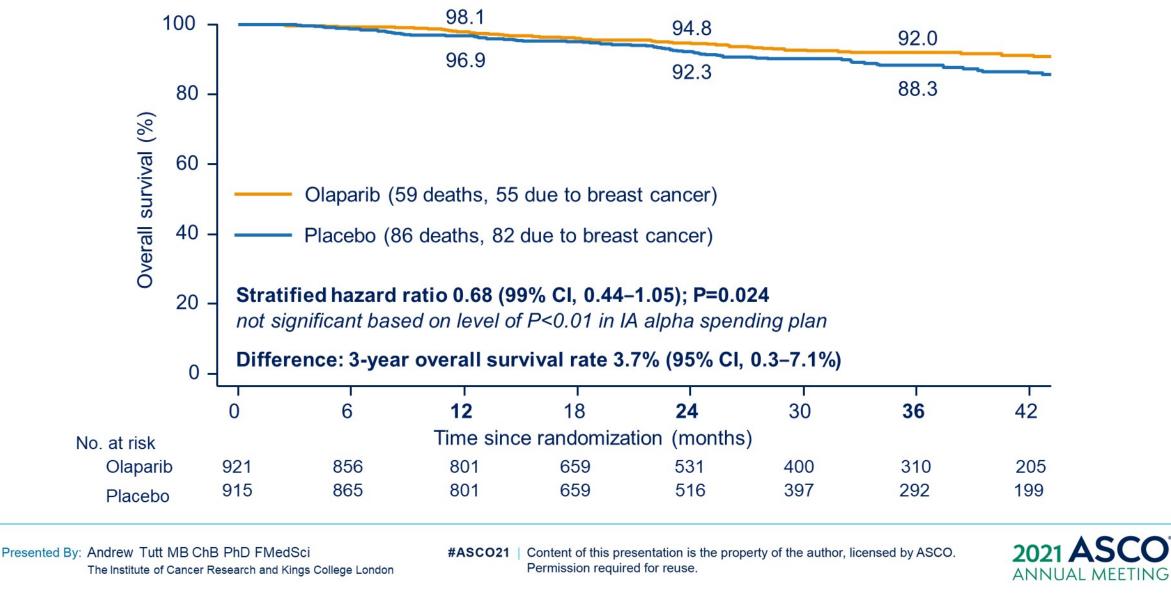
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Courtesy of Matthew P Goetz, MD

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OlympiA: Overall survival



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Courtesy of Matthew P Goetz, MD

NEOADJUVANT TALAZOPARIB IN PATIENTS WITH GERMLINE *BRCA1/2* MUTATION-POSITIVE, EARLY HER2-NEGATIVE BREAST CANCER: RESULTS OF A PHASE 2 STUDY

Jennifer K. Litton,¹ J. Thaddeus Beck,² Jason M. Jones,³ Jay Andersen,⁴ Joanne L. Blum,⁵ Lida A. Mina,⁶ Raymond Brig,⁷ Michael Danso,⁸ Yuan Yuan,⁹ Antonello Abbattista,¹⁰ Kay Noonan,¹¹ Jayeta Chakrabarti,¹² Akos Czibere,¹³ William F. Symmans,¹ Melinda L. Telli¹⁴

¹The University of Texas MD Anderson Cancer Center, Houston, TX, USA; ²Highlands Oncology Group, Fayetteville, AR, USA; ³Avera Cancer Institute, Sioux Falls, SD, USA; ⁴Compass Oncology, West Cancer Center, Tigard, OR, USA; ⁵Texas Oncology-Baylor Charles A. Sammons Cancer Center, US Oncology Network, Dallas, TX, USA; ⁶Banner MD Anderson Cancer Center, Gilbert, AZ, USA; ⁷Brig Center for Cancer Care and Survivorship, Knoxville, TN, USA; ⁸Virginia Oncology Associates, Norfolk, VA, USA; ⁹City of Hope Comprehensive Cancer Center and Beckman Research Institute, Duarte, CA, USA; ¹⁰Pfizer Oncology, Milan, Italy; ¹¹Pfizer Inc., Groton, CT, USA; ¹²Pfizer, Walton Oaks, Surrey, UK; ¹³Pfizer Inc., Cambridge, MA, USA; ¹⁴Stanford University School of Medicine, Stanford, CA, USA

June 6, 2021

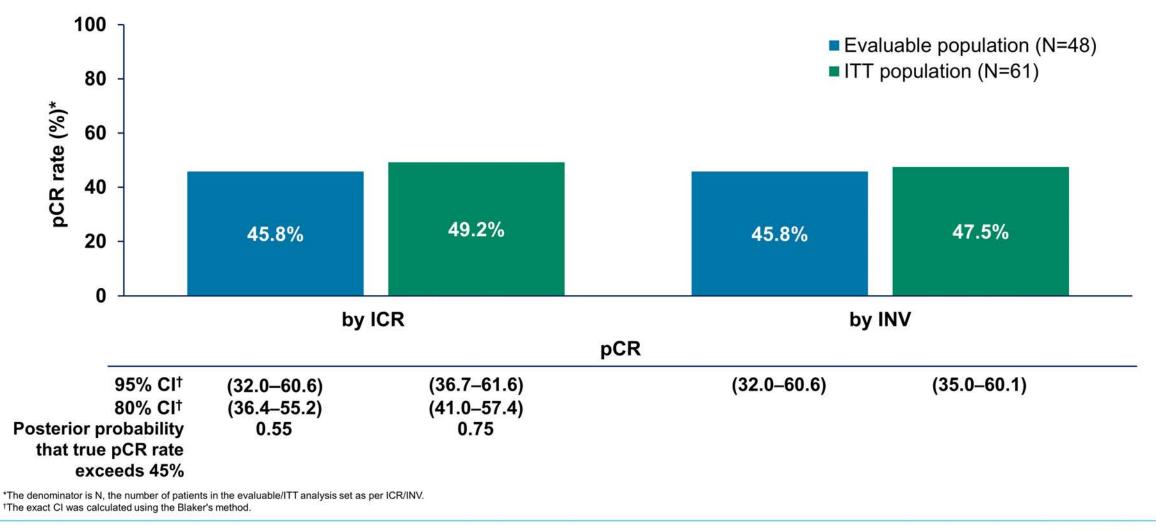
2021 ASCO

ANNUAL MEETING

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Courtesy of Melinda Telli, MD

Pathologic Complete Response



Presented By: Jennifer K. Litton

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Courtesy of Melinda Telli, MD

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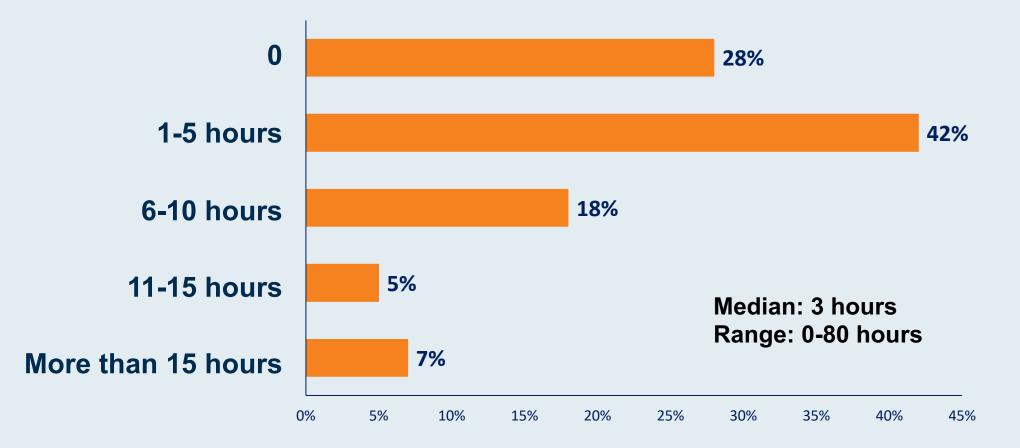
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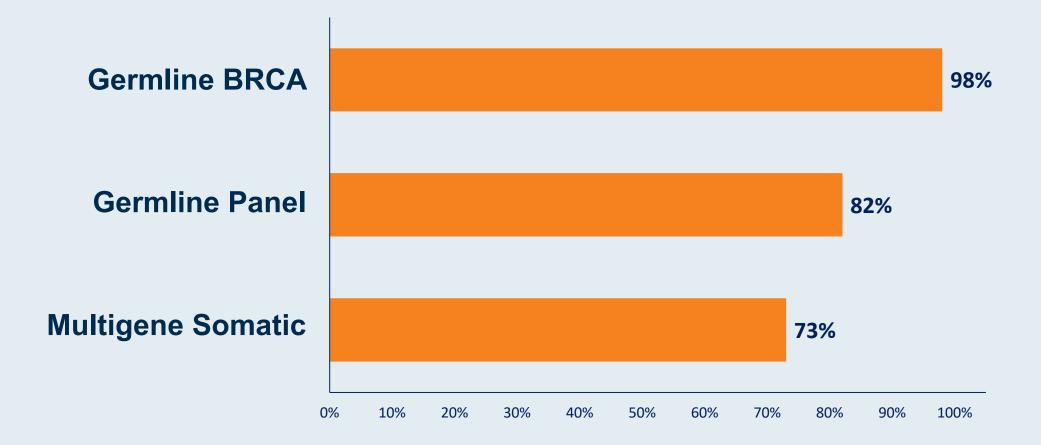
In the past month, approximately how many hours did you spend conducting telemedicine visits with patients?





Premeeting survey: July 2021

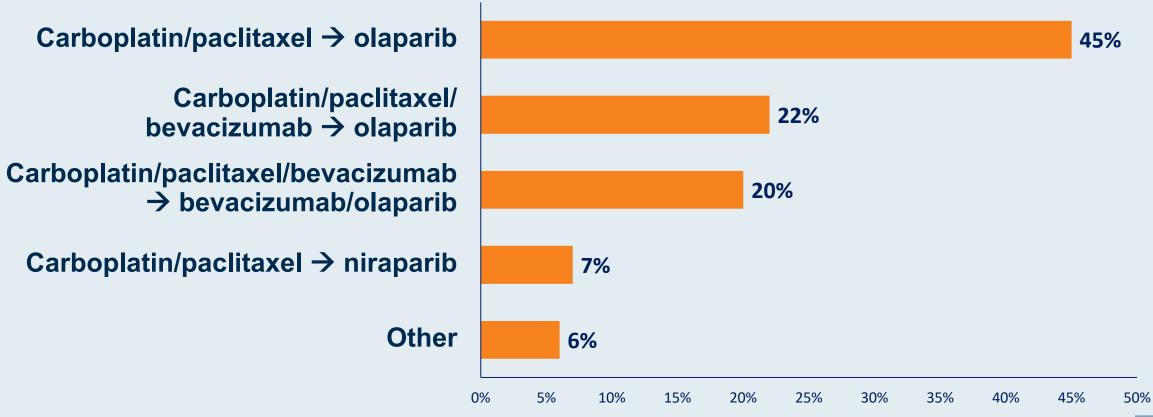
Would you order any of the following assays for a 65-year-old woman diagnosed with ovarian cancer whose family history is negative? (Percent responding "Yes")





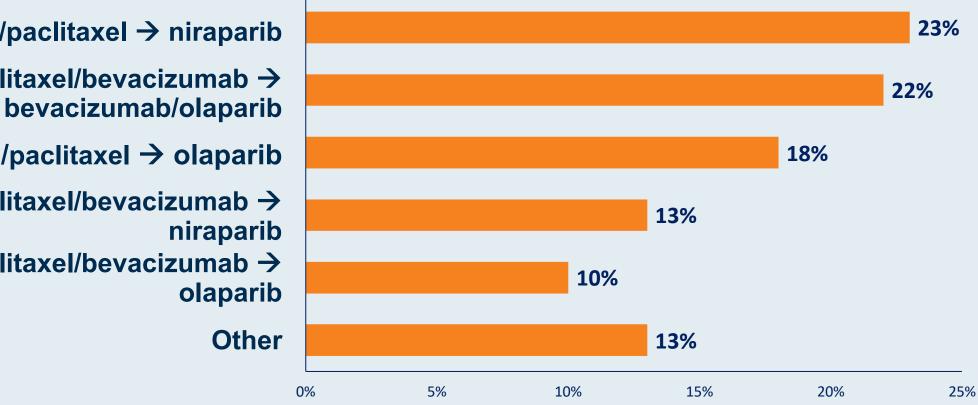
Premeeting survey: July 2021

A 60-year-old woman with Stage IIIC ovarian cancer and a <u>germline</u> <u>BRCA mutation</u> is s/p <u>optimal debulking surgery</u>. Regulatory and reimbursement issues aside, what would you recommend as postoperative systemic therapy?





A 60-year-old woman with Stage IIIC ovarian cancer (BRCA wild type, HRD-positive) is s/p optimal debulking surgery. Regulatory and reimbursement issues aside, what would you recommend as postoperative systemic therapy?



Carboplatin/paclitaxel \rightarrow niraparib Carboplatin/paclitaxel/bevacizumab \rightarrow

Carboplatin/paclitaxel \rightarrow olaparib

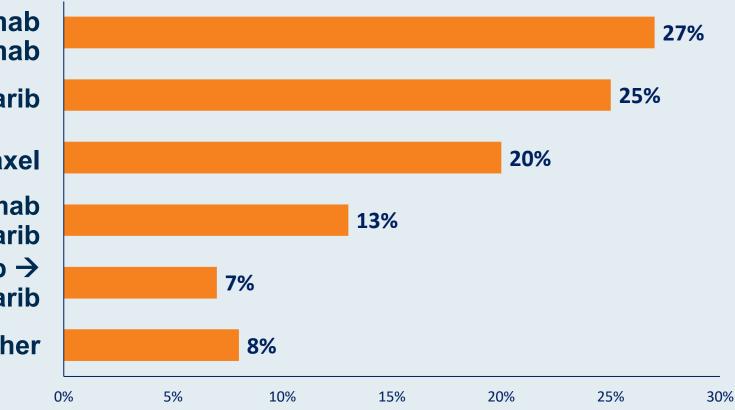
Carboplatin/paclitaxel/bevacizumab \rightarrow niraparib

Carboplatin/paclitaxel/bevacizumab \rightarrow olaparib

Other



A 60-year-old woman with Stage IIIC ovarian cancer (BRCA wild type, HRD-negative) is s/p optimal debulking surgery. Regulatory and reimbursement issues aside, what would you recommend as postoperative systemic therapy?



Carboplatin/paclitaxel/bevacizumab → bevacizumab Carboplatin/paclitaxel → niraparib

Carboplatin/paclitaxel

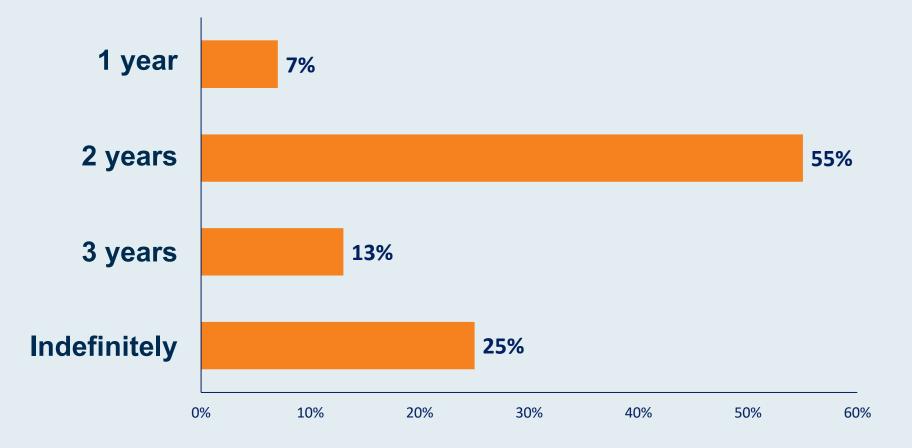
Carboplatin/paclitaxel/bevacizumab → niraparib

Carboplatin/paclitaxel/bevacizumab → bevacizumab/olaparib

Other



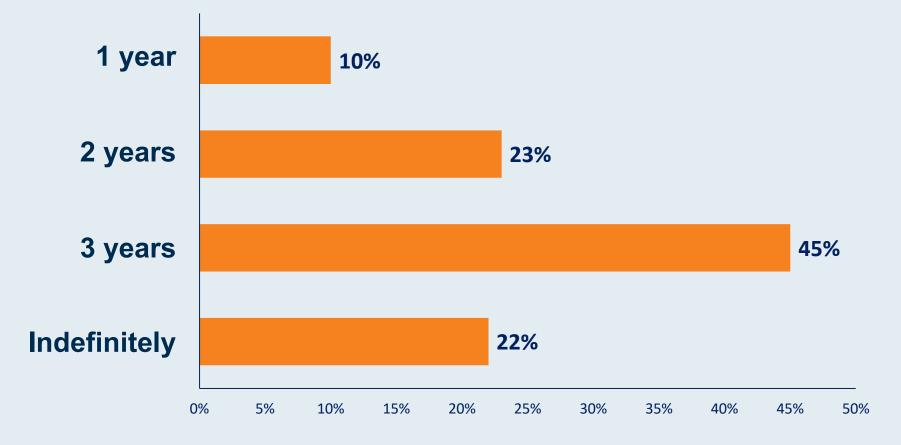
A 60-year-old woman with Stage IIIC ovarian cancer and a germline BRCA mutation undergoes debulking surgery and receives carboplatin/paclitaxel followed by <u>olaparib</u>. For how long would you typically continue the olaparib if the patient is tolerating it well?





Premeeting survey: July 2021

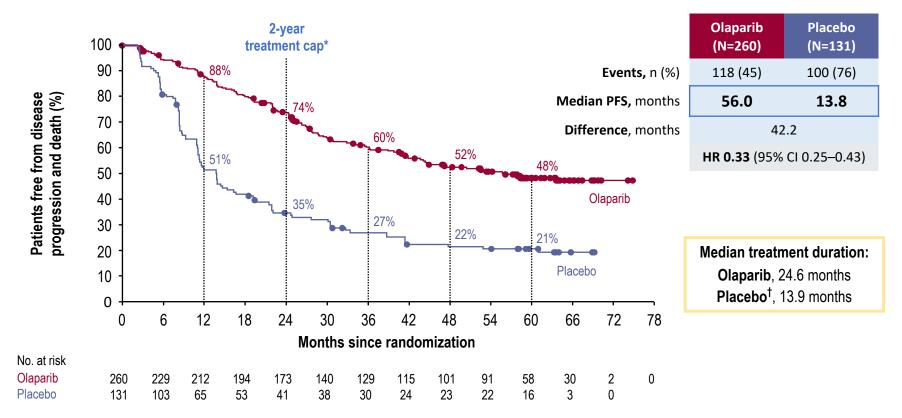
A 60-year-old woman with Stage IIIC ovarian cancer (BRCA wild type, HRD-negative) undergoes debulking surgery and receives carboplatin/paclitaxel followed by <u>niraparib</u>. For how long would you typically continue the niraparib if the patient is tolerating it well?





Premeeting survey: July 2021

Phase 3 SOLO1: PFS at 5 Years of Follow-Up



*13 patients, all in the olaparib arm, continued study treatment past 2 years; †n=130 (safety analysis set) Investigator-assessed by modified RECIST v1.1. DCO: 5 March 2020

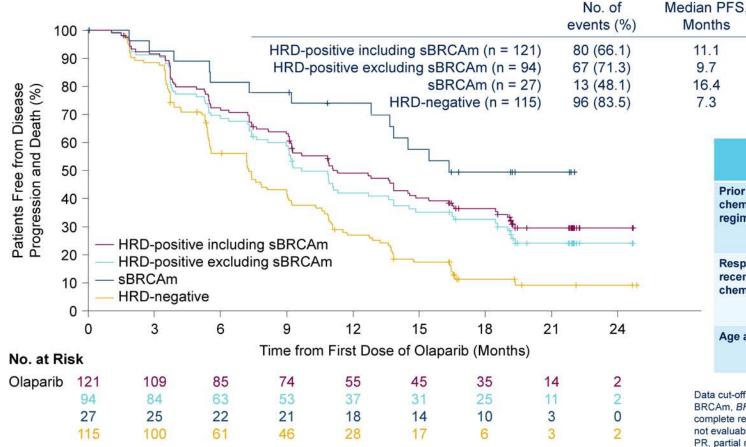
Median follow-up for PFS: olaparib, 4.8 y; placebo, 5.0 years.

Banerjee S, et al. ESMO 2020.

Courtesy of Michael J Birrer, MD, PhD

Primary Analysis of the Phase IIIb OPINION Study – ASCO 2021 "SOLO-1 Update"

Median PFS was prolonged across Myriad HRD/sBRCAm status and other baseline demographic/disease characteristics subgroups



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	Months	Months	
	11.1	9.2 to 14.6	
	9.7	8.1 to 13.6	
	16.4	12.8 to NE	
	7.3	5.5 to 9.0	

95% CI

	No. of events (%)	Median PFS, Months	95% Cl, Months
Prior platinum-based chemotherapy regimens 2 (n = 165) >2 (n = 114)	127 (77.0) 83 (72.8)	9.2 9.0	7.4–11.1 7.2–10.9
Response to most recent platinum-based chemotherapy CR/NED (n = 92) PR (n = 184)	60 (65.2) 147 (79.9)	13.7 7.4	9.3–16.4 5.6–9.1
Age at enrolment <65 (n = 132) ≥65 (n = 147)	100 (75.8) 110 (74.8)	9.2 9.0	7.8–12.8 7.2–10.8

Data cut-off: 2 October 2020. Tickmarck indicates a censored observation. BRCAm, *BRCA1* and/or *BRCA2* mutation; CI, confidence interval; CR, complete response; HRD, homologous recombination repair deficiency; NE, not evaluable; NED, no evidence of disease; PFS, progression-free survival; PR, partial response; sBRCAm, somatic BRCA mutation

Presented By: Andrés Poveda, MD

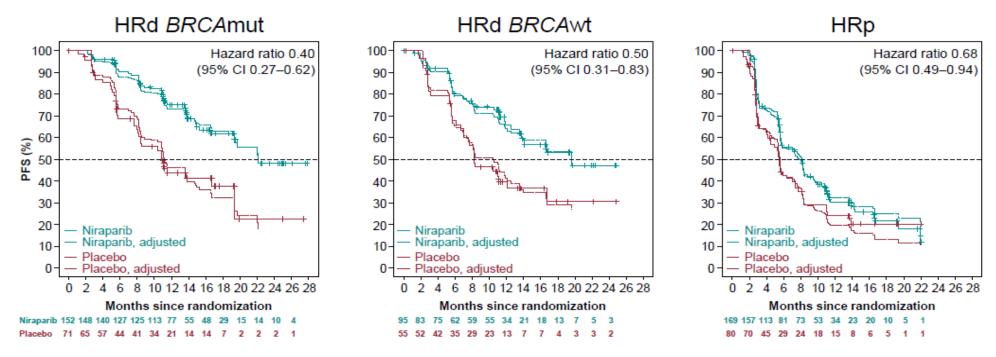
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Courtesy of Michael J Birrer, MD, PhD

Phase 3 PRIMA PFS Benefit in HRd and HRp Subgroups by BICR

- Niraparib provided clinical benefit in the HRd (BRCAmut and BRCA wt) and HRp subgroups
- All subgroups were analyzed using the adjusted Cox regression method to account for stratification imbalances

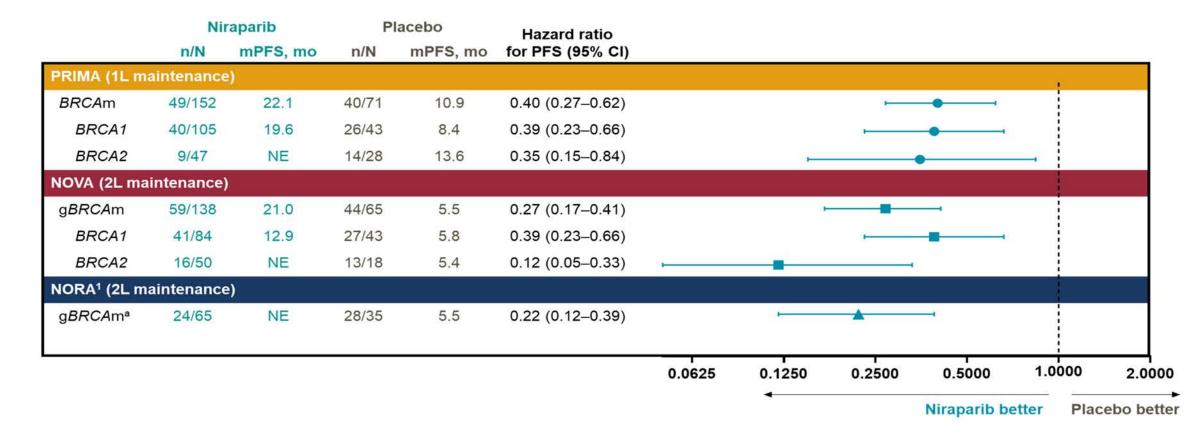


González-Martín A, et al. ESMO 2019. Abstract LBA1. González-Martín A, et al. *N Engl J Med.* 2019;381:2391-2402.

Courtesy of Michael J Birrer, MD, PhD

ASCO 2021 UPDATE- PRIMA

Progression-Free Survival in Patients with BRCAm Ovarian Cancer



PFS was measured by blinded independent central review. Horizontal lines represent 95% CIs

*BRCA1 and BRCA2 data are not currently available.

1L, first-line; 2L, second-line; g, germline; m, mutated; mPFS, median progression-free survival; NE, not estimable; PFS, progression-free survival. Wu XH. et al. Ann Oncol 2021;32(4):512–521.

¹Wu XH, et al. Ann Oncol 2021;32(4):512–5

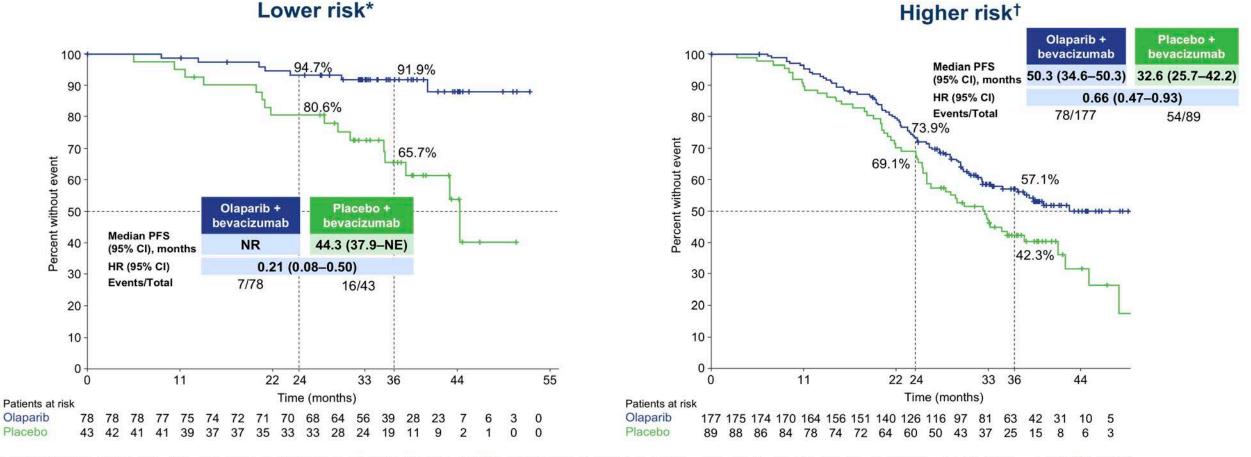


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Courtesy of Michael J Birrer, MD, PhD

ASCO 2021 UPDATE – PAOLA-1 **PFS2 by FIGO stage and surgical outcome in** patients with HRD-positive tumors

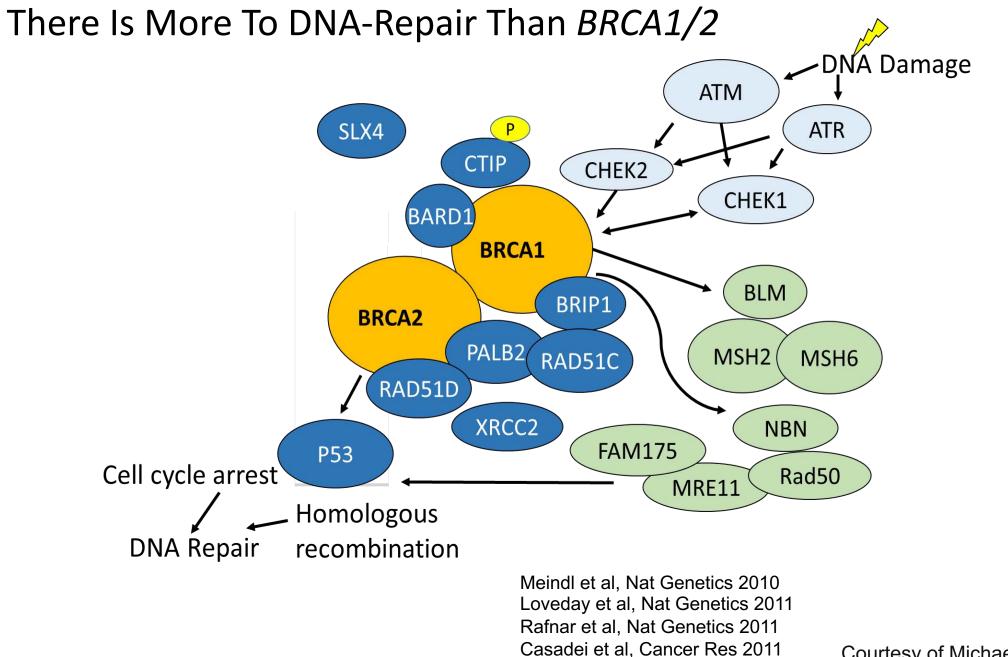


The median time from the first cycle of chemotherapy to randomization was 7 months. *Patients with HRD-positive tumors who had stage III disease and complete resection following upfront surgery (median follow-up overall: 37.0 months); *Stage III patients with residual disease after upfront surgery or who received neoadjuvant chemotherapy, or HRD-positive stage IV patients (median follow-up overall: 37.5 months). NR, not reached; PFS2, second progression-free survival.

Courtesy of Michael J Birrer, MD, PhD

OVARIO Clinical Trial – SGO 2021 Bevacizumab plus niraparib in upfront maintenance

- Newly diagnosed high grade ovarian cancer responding to chemotherapy
- Single ARM Phase II
- Safe combination no new toxicities found
- PFS at 6, 12, and 18 months revealed 90%, 75% and 62% respectively
- 27% discontinued treatment
- These results are consistent in efficacy and safety with PAOLA-1



Courtesy of Michael J Birrer, MD, PhD

Guidelines Recommend Screening for Hereditary Mutations for Risk Assessment and Genetic Counseling

National Comprehensive Cancer Network[®] (NCCN[®])¹

 All patients with ovarian cancer, fallopian tube cancer, or primary peritoneal cancers should be referred for genetic risk evaluation^a

Society for Gynecologic Oncology²

• All patients with epithelial ovarian cancer should receive genetic counseling and be offered genetic testing, regardless of age or family history

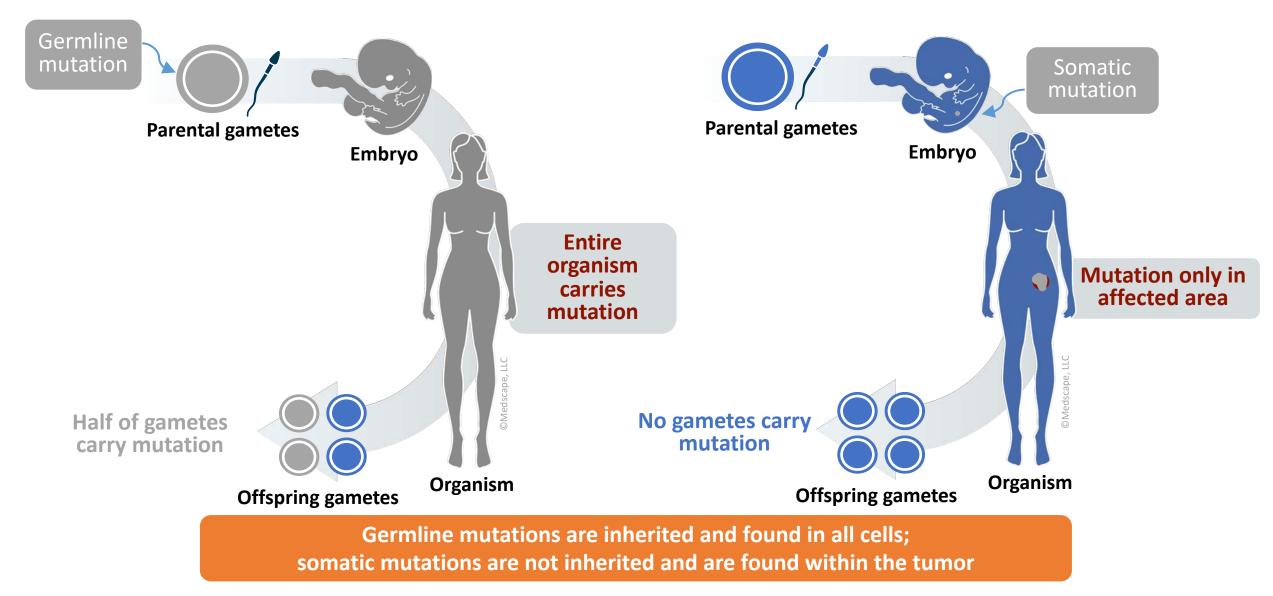
American Society of Clinical Oncology³

- Individuals with epithelial ovarian cancer, fallopian tube cancer, or primary peritoneal cancer should be considered for genetic testing to identify germline susceptibility genes, regardless of family history
- Prevention interventions are available that affect cancer risk in the patient and her relatives

^a Primary treatment should not be delayed for a genetic counseling referral.

1. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines[®]) for Ovarian Cancer Including Fallopian Tube Cancer and Primary Peritoneal Cancer V.2.2018. © National Comprehensive Cancer Network, Inc. 2018. All rights reserved. Accessed February 1, 2019. To view the most recent and complete version of the NCCN Guidelines, go online to NCCN.org. NCCN makes no warranties of any kind whatsoever regarding their content, use or application and disclaims any responsibility for their application or use in any way. **2.** Lancaster JM, et al. *Gynecol Oncol.* 2015;136(1):3-7. **3.** American Society of Clinical Oncology. Assessing Your Patient's Hereditary Cancer Risk. https://www.asco.org/practice-guidelines/cancer-care-initiatives/genetics-toolkit/assessing-your-patient's-hereditary. Updated December 2018. Accessed January 17, 2019.

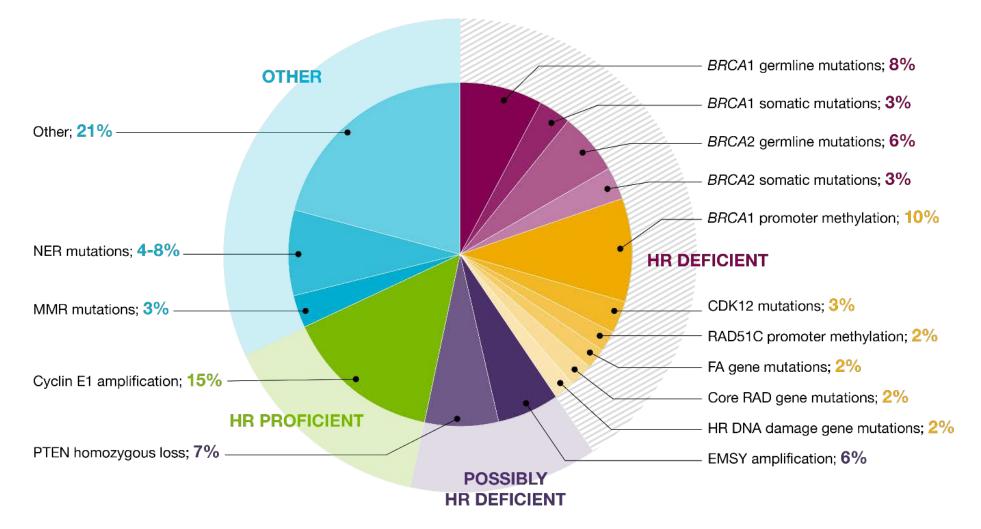
Germline vs Somatic Mutations



Courtesy of Michael J Birrer, MD, PhD

Approximately Half of High Grade Epithelial Ovarian Cancers Harbor Defects in Homologous Recombination

These defects can be identified using different clinical and molecular biomarkers



Agenda

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- Mechanisms of resistance to PARP inhibitor therapy

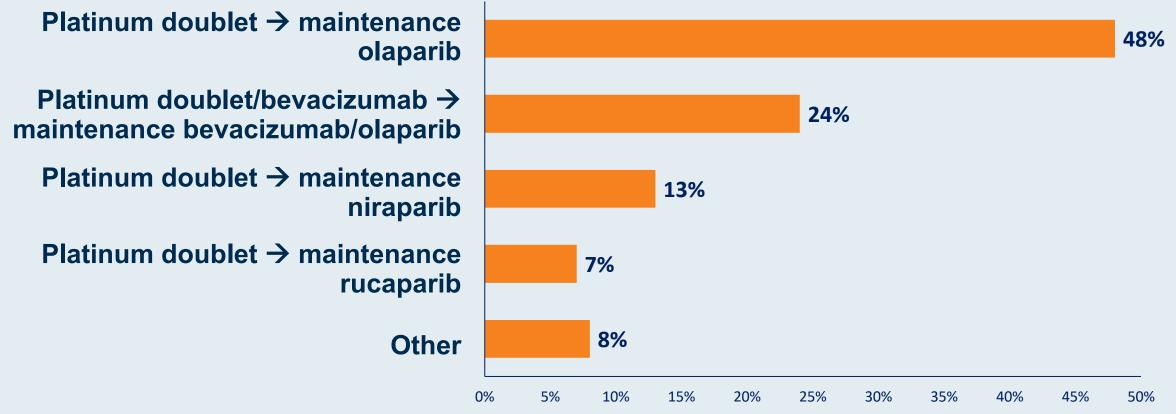
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- Scientific rationale for targeting folate receptor alpha in OC
- Mirvetuximab soravtansine with or without bevacizumab for platinum-resistant OC
- Ongoing trials evaluating mirvetuximab soravtansine for platinum-resistant OC: MIRASOL, SORAYA

Module 4: Immune Checkpoint Inhibitors in OC

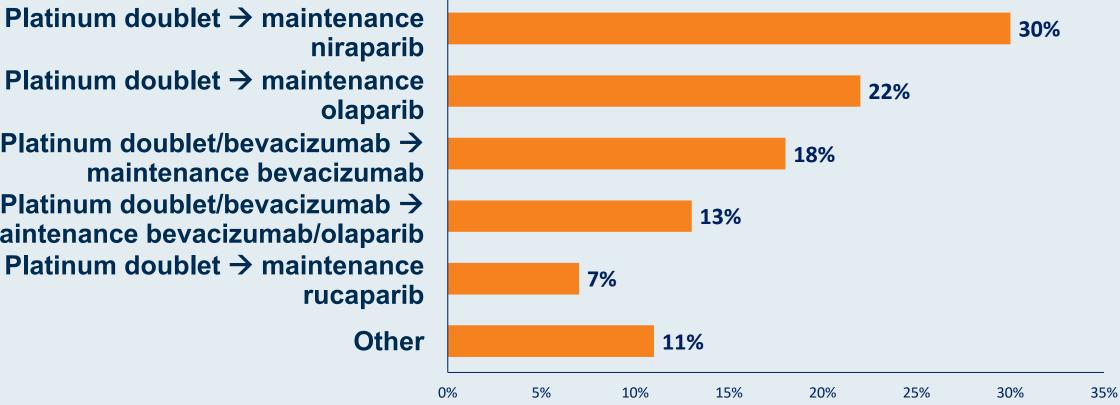
- Biologic rationale for combining PARP inhibitors with anti-PD-1/PD-L1 antibodies
- Ongoing Phase III trials evaluating immune checkpoint inhibitors with PARP inhibitors for advanced OC

A 70-year-old woman with advanced ovarian cancer and a <u>germline</u> <u>BRCA mutation</u> undergoes debulking surgery followed by chemotherapy with <u>carboplatin/paclitaxel</u> and experiences disease relapse 1 year later. Which treatment would you likely recommend?





A 70-year-old woman with advanced ovarian cancer (BRCA wild type, **HRD-positive) undergoes debulking surgery followed by** chemotherapy with <u>carboplatin/paclitaxel</u> and experiences disease relapse 1 year later. Which treatment would you likely recommend?



niraparib Platinum doublet \rightarrow maintenance olaparib Platinum doublet/bevacizumab \rightarrow maintenance bevacizumab Platinum doublet/bevacizumab \rightarrow maintenance bevacizumab/olaparib Platinum doublet \rightarrow maintenance rucaparib Other



FDA-Approved PARP Inhibitors as Maintenance Therapy for Recurrent, Platinum-Sensitive Disease

Niraparib	Rucaparib	Olaparib
 Indications: Maintenance following	 Indications: Maintenance following	 Indications: Maintenance following
response to platinum-based	response to platinum-based	response to platinum-based
therapy Irrespective of BRCA status	therapy Irrespective of BRCA status	therapy Irrespective of BRCA status
Pivotal study: ENGOT-	Pivotal study: ARIEL3	Pivotal studies: SOLO-2,
OV16/NOVA	Approved: 4/2018	Study 19
Approved: 3/2017	Approved. 4/2010	Approved: 8/2017

Niraparib FDA insert, revised 3/2017; Rucaparib FDA insert, revised 4/2018; Olaparib FDA insert, revised 1/2018; Pujade-Lauraine E et al. *Lancet* 2017;18(9):1274-84; Mirza MR et al. *N Engl J Med* 2016;375(22):2154-64; Coleman RL et al. *Lancet* 2017;390(10106):1949-61; Ledermann J et al. *N Engl J Med* 2012;366:1382-92.



Efficacy Summary of PARP Inhibitors for Recurrent, Platinum-Sensitive OC

	PARPi	Control	HR		
NOVA ¹ — Niraparib					
gBRCA mutation	21.0 mo	5.5 mo	0.27		
No gBRCA mutation, HRD+	12.9 mo	3.8 mo	0.38		
No gBRCA mutation	9.3 mo	3.9 mo	0.45		
SOLO-2 ² — Olaparib	SOLO-2 ² — Olaparib				
gBRCA mutation	19.1 mo	5.5 mo	0.30		
ARIEL3 ³⁻⁴ — Rucaparib					
ITT (All comers)	10.8 mo	5.4 mo	0.36		
g or sBRCA mutation	16.6 mo	5.4 mo	0.23		
HRD+	13.6 mo	5.4 mo	0.32		
BRCA ^{wT} /High LOH	13.6 mo	5.4 mo	0.32		
BRCA ^{WT} /Low LOH	6.7 mo	5.4 mo	0.58		

¹ Mirza MR et al. *N Engl J Med* 2016;375(22):2154-64; ² Pujade-Lauraine E et al. *Lancet* 2017;18(9):1274-84; ³ Coleman RL et al. *Lancet* 2017;390(10106):1949-61; ⁴Ledermann JA et al. *Lancet Oncol* 2020;21(5):710-722.



FDA-Approved PARP Inhibitors as Monotherapy for Multiply Relapsed Disease

Olaparib	Rucaparib	Niraparib
 Indications: 4th-line therapy and beyond Germline BRCA mutation 	 Indications: 3rd-line therapy and beyond Germline <u>and/or</u> somatic BRCA mutation 	 Indications: 4th-line therapy and beyond HRD-positive
Dosing: • 300 mg BID Approved: 12/2014	Dosing: • 600 mg BID Approved: 12/2016	Dosing: • Weight- and platelet count-dependent: 200 or 300 mg QD Approved: 102/2019

Olaparib prescribing information, revised 12/2018; Rucaparib prescribing information, revised 4/2018; Niraparib prescribing information, revised 04/2020

Rucaparib vs Chemotherapy in Patients With Advanced, Relapsed Ovarian Cancer and a Deleterious BRCA Mutation: Efficacy and Safety From ARIEL4, a Randomized Phase 3 Study

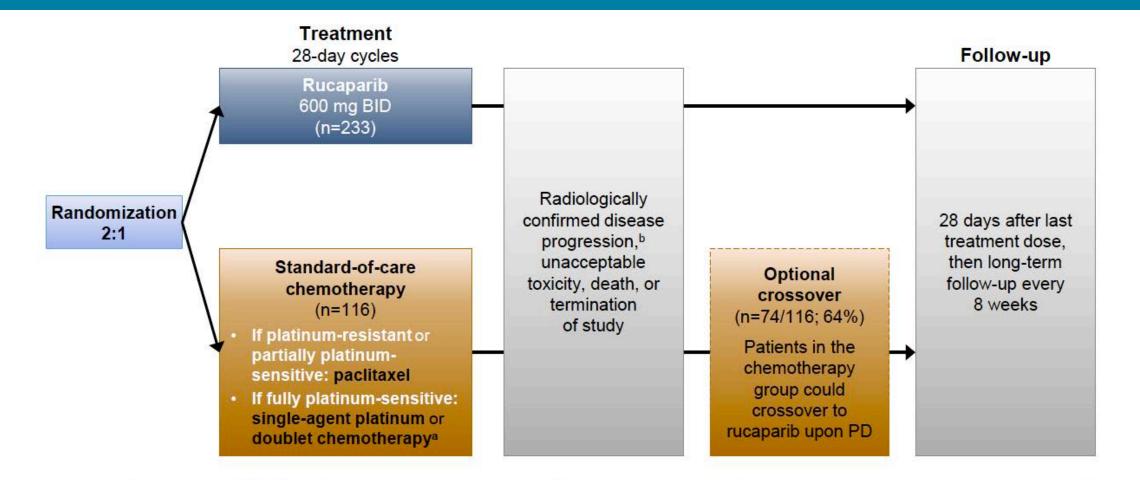
Rebecca Kristeleit,¹ Alla Lisyanskaya,² Alexander Fedenko,³ Mikhail Dvorkin,⁴ Andreia Cristina de Melo,⁵ Yaroslav Shparyk,⁶ Irina Rakhmatullina,⁷ Igor Bondarenko,⁸ Nicoletta Colombo,⁹ Valentyn Svintsitskiy,¹⁰ Luciano Biela,¹¹ Marina Nechaeva,¹² Francesco Raspagliesi,¹³ Giovanni Scambia,¹⁴ David Cibula,¹⁵ Róbert Póka,¹⁶ Ana Oaknin,¹⁷ Tamar Safra,¹⁸ Beata Mackowiak-Matejczyk,¹⁹ Ling Ma,²⁰ Daleen Thomas,²¹ Kevin K. Lin,²¹ Karen McLachlan,²¹ Sandra Goble,²¹ Amit M. Oza²²

¹Guy's and St. Thomas' NHS Foundation Trust, London, UK; ²Saint Petersburg City Oncological Dispensary, Russia; ³N.N. Blokhin Russian Cancer Research Center, Moscow, Russia; ⁴Omsk Region Clinical Oncologic Dispensary, Russia; ⁵Instituto Nacional de Câncer - Hospital do Câncer II, Rio de Janeiro, Brazil; ⁶Lviv Regional Oncology Dispensary, Ukraine; ⁷Republic Clinical Oncology Dispensary of the Ministry of Healthcare of Republic of Bashkortostan, Ufa, Russia; ⁸Dnipropetrovsk Medical Academy, Dnipro, Ukraine; ⁹University of Milan-Bicocca and European Institute of Oncology (IEO) IRCCS, Italy; ¹⁰National Cancer Institute of the Ministry of Health of Ukraine, Kyiv, Ukraine; ¹¹Instituto de Oncologia do Parana (IOP), Curitiba, Brazil; ¹²Arkhangelsk Clinical Oncological Dispensary, Russia; ¹³Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy; ¹⁴Fondazione Policlinico Universitario Agostino Gemelli, IRCCS, Rome, Italy; ¹⁵Charles University and General University Hospital in Prague, Czech Republic; ¹⁶University of Debrecen, Hungary; ¹⁷Vall d'Hebron Institute of Oncology (VHIO), Hospital Universitari Vall d'Hebron, Vall d'Hebron Barcelona Hospital Campus, Spain; ¹⁸Sourasky Medical Center, Tel Aviv, Israel; ¹⁹Bialostockie Centrum Onkologii im. Marii Sklodowskiej-Curie, Poland; ²⁰Rocky Mountain Cancer Centers, Lakewood, USA; ²¹Clovis Oncology, Inc., Boulder, USA; ²²Princess Margaret Cancer Centre, University Health Network, Toronto, Canada

SGO VIRTUAL ANNUAL MEETING 2021 ON WOMEN'S CANCER®



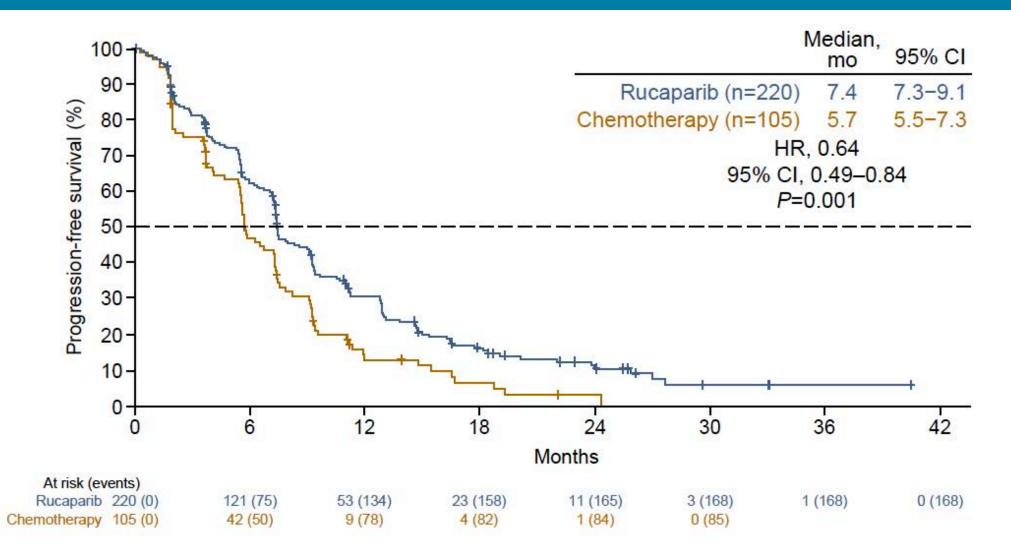
ARIEL4: Study Schema



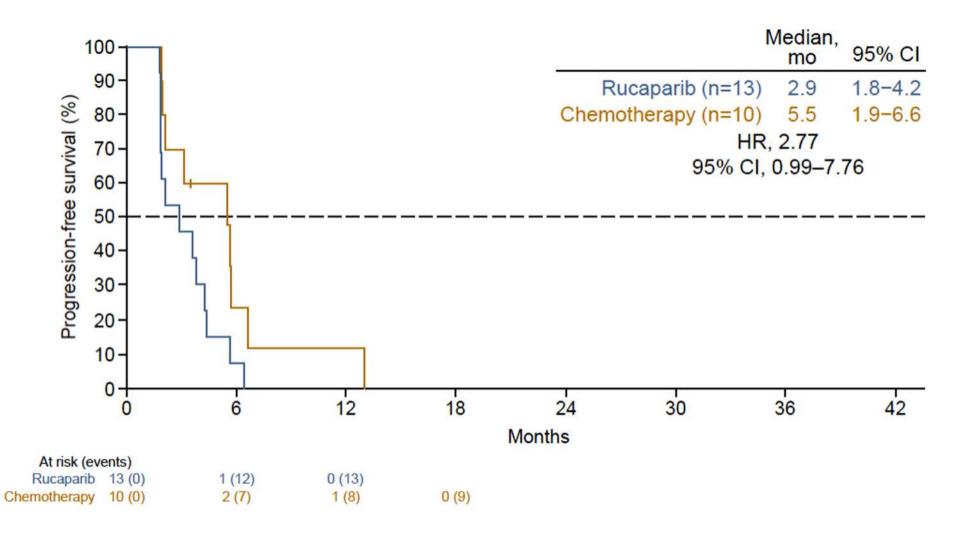
Randomization stratification factor: Platinum status (platinum-resistant, partially platinum-sensitive, fully platinum sensitive)c

^aAt investigator's discretion. ^bPer RECIST. ^cPlatinum resistant: PFI ≥1–<6 months, partially platinum sensitive: PFI ≥6–<12 months, fully platinum sensitive: PFI ≥12 months. BID, twice daily; BRCA, *BRCA1* or *BRCA2*; PARP, poly(ADP-ribose) polymerase; PD, progressive disease; PFI, progression-free interval; RECIST, Response Evaluation Criteria In Solid Tumors, version 1.1.

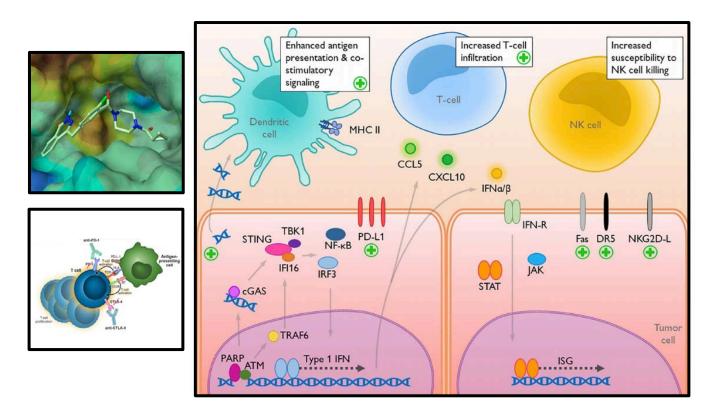
ARIEL4: Investigator-Assessed PFS



ARIEL4: Investigator-Assessed PFS BRCA^{mut} Reversion



Resistance Mechanisms: Issue 1



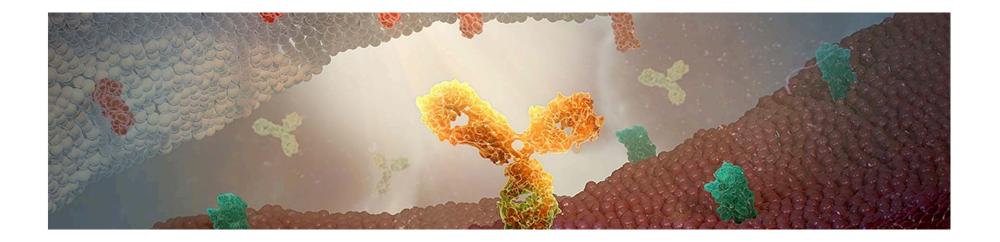
Error Prone Repair → Neoantigens CD80 & 86, MHC II → Ag presentation PD-L1 upregulation → 'Warmer' Tumors NKG2D Ligands → 'Warmer' Tumors STING Pathway → Type I IFN response

> Courtesy of Richard T Penson, MD, MRCP



Lee LK & Konstantinopoulos PA. Trends Cancer. 2019;5(9):524-8

Resistance Mechanisms: Issue 2



OReO

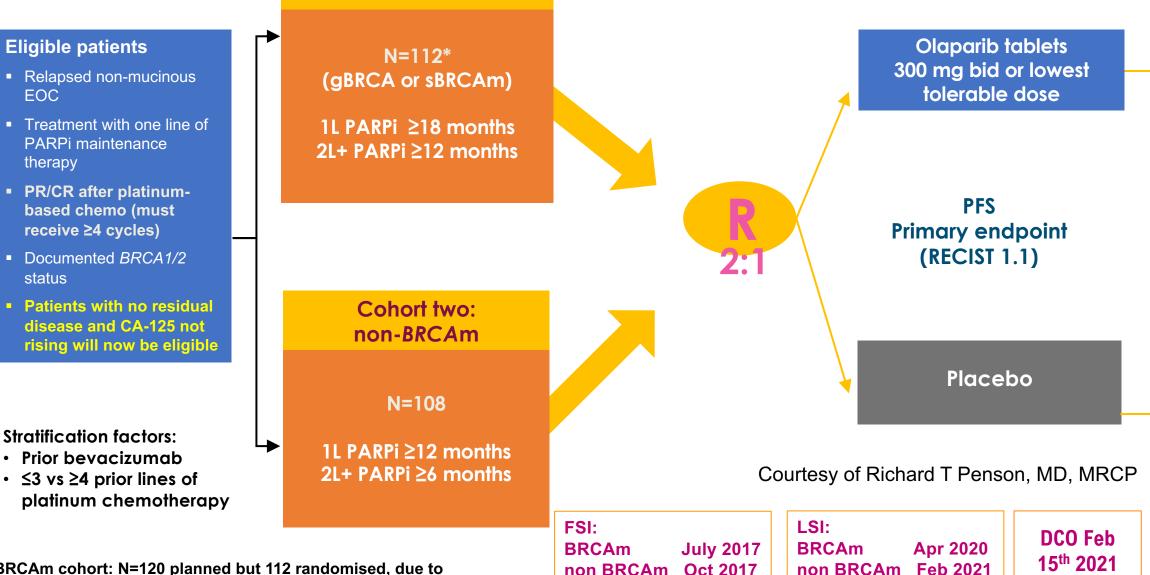
A Phase IIIb, Randomised, Double-blind, Placebo-controlled, multi-centre Study of Olaparib Maintenance Re-treatment in Patients with Epithelial Ovarian Cancer Previously treated with a PARPi and Responding to Repeat Platinum Chemotherapy (D0816C00014 ENGOT ov38)

Courtesy: Eric Pujade-Lauraine MD



OReO Study Design

Cohort one: BRCAm



*BRCAm cohort: N=120 planned but 112 randomised, due to required number of events being reached.

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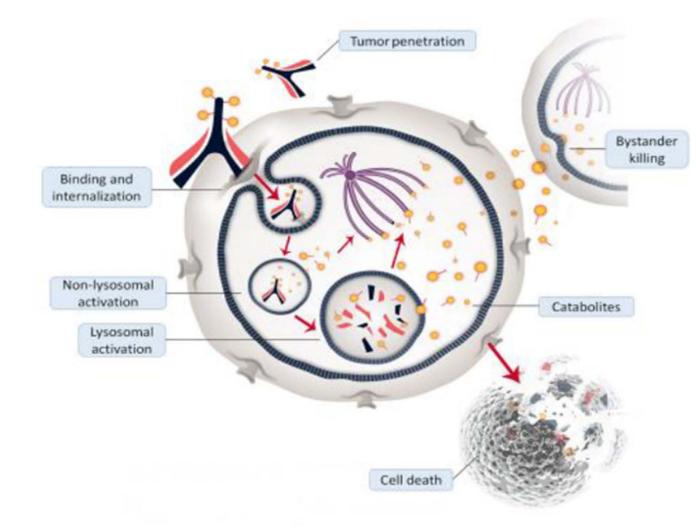
Platinum Resistant Ovarian Cancer: Improving on AURELIA

	AURELIA	Mirvetuximab	AVB500	Navicixizumab
Regimen	Chemo/Bev	Mirv/Bev	AVB500/PAC	Navi/PAC
Median age	61	64	64	63
Patient population	Platinum resist 1-2 priors 60% - 1 prior 40% - 2 prior	40% 1-2 priors	≥2 priors in 66%	Median # priors 4
Prior bevacizumab	7%	40%	47%	68%
ORR	27%	59%	34.8%	43%
mPFS	6.7 (95% 5.7 <i>,</i> 7.9)	9.7 (95% CI 5.6-11)	mDOR 7.0 months	NR

O'Malley et al ASCO 2021, Fuh et al SGO Annual Meeting 2021; Moore et al. SGO Annual Meeting 2020

Mirvetuximab + Bevacizumab in Recurrent Ovarian Cancer: Abstract 5504

Mirvetuximab soravtansine is an antibody-drug conjugate targeting the folate receptor alpha



O'Malley et al. J Clin Oncol 39, 2021 (suppl 15; abstr 5504)

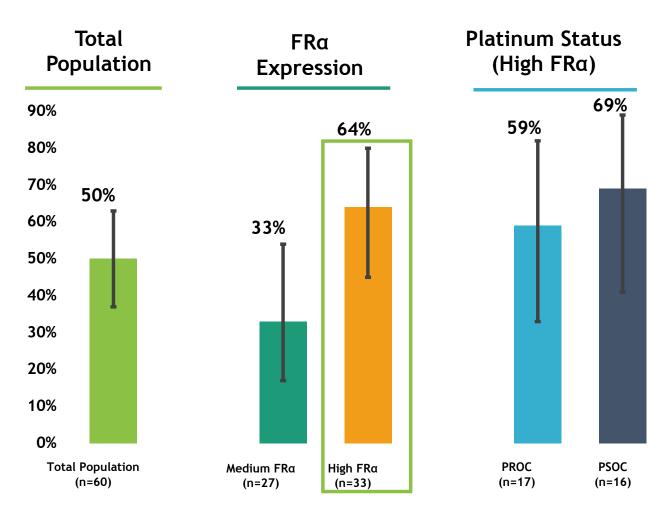
Mirvetuximab 6 mg/kg + bevacizumab 15 mg/kg

- PFI
 - < 6 months 53%
 - 6-12 months 33%
 - >12 months 13%
- Prior Treatments
 - Bevacizumab 40%
 - PARPi 35%
- Prior Therapies
 - 1-2 priors 68%
 - <u>></u>3 32%

Courtesy of Kathleen Moore, MD

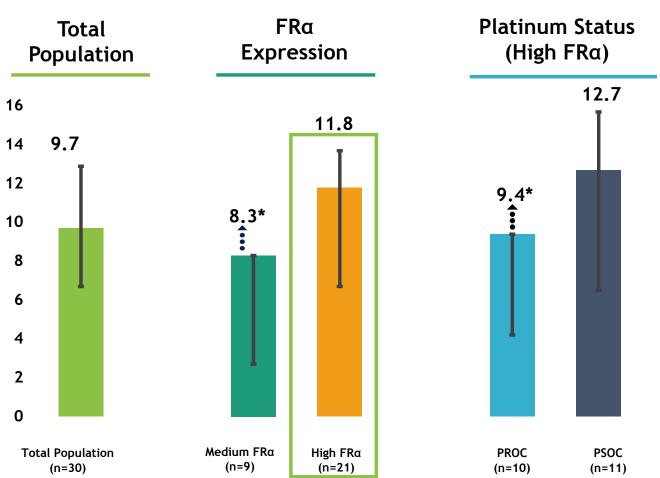
Confirmed ORR by FRa Expression and Platinum Status

ORR (%)



- 50% ORR (30/60) for overall cohort
- 64% ORR (21/33) in high FRα tumors
 - 59% ORR (10/17) in PROC subset
 - 69% ORR (11/16) in PSOC subset

Median Duration of Response (mDOR) by FR α Expression and Platinum Status



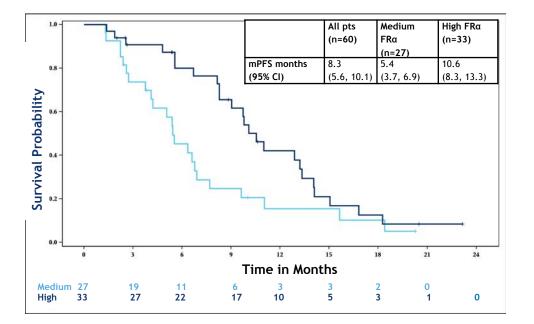
Median DOR (months)

- 9.7 mo mDOR for overall cohort
- 11.8 mo mDOR in high FRα tumors
 9.4 mo mDOR in PROC subset
 - > 12.7 mo mDOR in PSOC subset

*Upper limit of 95% confidence interval not reached

David O'Malley, Ohio State University

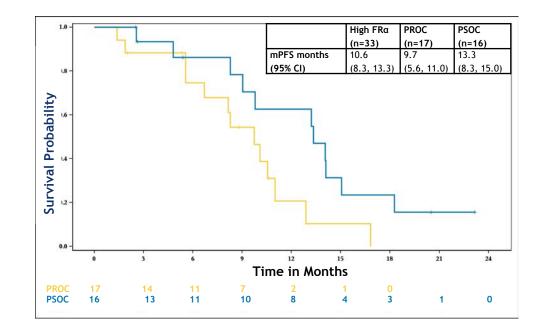
Longer PFS in High FRa Tumors Regardless of Platinum Status



Medium and High FRa Tumors

- mPFS 10.6 months in high FRa tumors
- mPFS 5.4 months in medium FRα tumors
- High FRα 6-month and 12-month PFS rate of 80% and 42%, respectively

High FRa Tumors (PROC and PSOC)



- mPFS 9.7 months in high FRa PROC tumors
- mPFS 13.3 months in high FRα PSOC tumors

mPFS = median progression free survival

Efficacy Comparison of Mirvetuximab + Bev Combo: PSOC

	OCEANS	GOG-0213	FORWARD II			
Regimen	Carbo/Gem	Carbo/Pac	Bev/Mirv			
Median age	61	60	66			
Patient population	plat sensitive, 1 prior	plat sensitive, 1 prior	1-2 priors 65%			
Prior bevacizumab	0	10%	40%			
ORR	79%	78%	69%			
mPFS	12.3(95% 10.7-14.6)	13.8 (95% 13.0-14.7)	13.3 (95% 8.3, 15.0)			

Encouraging clinical benefit in patients with platinum-sensitive disease who had received multiple prior lines of therapies

USPI, Aghajanian C et al. JCO. 2012;30: 2039-2045, Coleman R et al. Lancet Onc 2017 O'Malley et al ASCO 2017 Data cutoff 28 APR 2017

Pujade-Lauraine E et al J Clin Oncol. 2014 May 1;32(13):1302-8

Efficacy Comparison of Mirvetuximab + Bevacizumab Combo: PROC

	AURELIA	FORWARD II	
Regimen	Chemo/Bev	Mirv/Bev	
Median age	61	64	
Patient population	Platinum resist 1-2 priors 60% - 1 prior 40% - 2 priors	40% 1-2 priors	
Prior bevacizumab	7%	40%	
ORR	27%	59%	
mPFS	6.7 (95% 5.7, 7.9)	9.7 (95% CI 5.6-11)	

Mirvetuximab/Bev: Treatment-Related Emergent Adverse Events >20%

N=60	All Grades	Grade 3/4	
Adverse Event	N (%)	N (%)	
Diarrhea^	37 (62)	1 (2)	
Blurred vision	36 (60)	0 (0)	
Fatigue [^]	36 (60)	2 (3)	
Nausea	34 (57)	0 (0)	
Keratopathy [†]	26 (43)	0 (0)	
Peripheral neuropathy*	24 (40)	1 (2)	
Dry eye	20 (33)	3 (5)	
Decreased appetite	20 (33)	0 (0)	
Hypertension [^]	19 (32)	10 (17)	
Headache	17 (28)	0 (0)	
AST increased	17 (28)	2 (3)	
Vomiting	17 (28)	0 (0)	
Abdominal pain	16 (27)	0 (0)	
Visual acuity reduced	14 (23)	0 (0)	
Thrombocytopenia	14 (23)	2 (3)	
Neutropenia	13 (22)	8 (13)	
ALT increased	13 (22)	3 (5)	
Dysphonia^	13 (22)	0 (0)	
Asthenia	13 (22)	0 (0)	
Weight decrease [^]	13 (22)	1 (2)	

• Most AEs were low grade

- GI and Ocular were most frequent
- Ocular AE class effect of ADC manageable with eye drops
- Grade 3+ events were infrequent
 - 17% hypertension
 - 13% neutropenia
- Eighteen patients (30%) discontinued BEV and/or MIRV due to treatment-related AEs
 - Discontinuations occurred after a median of 13 cycles of treatment
 - Discontinuations by agent
 - MIRV: 23%
 - BEV: 18%

AE rates are similar for MIRV/BEV compared with MIRV alone (n=243 from FORWARD I), when adjusted for exposure ^Exceptions (p <0.05, not adjusted for multiplicity testing) include Diarrhea, Fatigue, Hypertension, Dysphonia, and Weight Decrease

AST, aspartate aminotransferase; ALT, alanine aminotransferase;

*Includes neuropathy peripheral, peripheral sensory neuropathy, paresthesia, and hypoesthesia

[†] Includes keratopathy, keratitis, corneal deposits, and corneal epithelial microcysts

GOG-3045



PHASE 3 RANDOMIZED TRIAL FOR MIRVETUXIMAB USING PS2+ SCORING IN FRα-HIGH, PLATINUM-RESISTANT OVARIAN CANCER

ENROLLMENT AND KEY ELIGIBILITY

- 430 patients/330 events for PFS by Investigator
- Platinum-resistant disease (primary PFI >3 mos)
- Prior bevacizumab allowed*
- Prior PARPi allowed
- Patients with BRCA mutations allowed

*Eligibility criterion different than SORAYA IC: investigator's choice; PRO: patient reported outcomes





PFS by Investigator BICR for Sensitivity Analysis

SECONDARY ENDPOINTS ORR by Investigator, OS, and PRO



SINGLE-ARM PIVOTAL TRIAL FOR MIRVETUXIMAB USING PS2+ SCORING IN FRα-HIGH, PLATINUM-RESISTANT OVARIAN CANCER PRIMARY ENDPOINT ORR by Investigator

SECONDARY ENDPOINT DOR by Investigator

ENROLLMENT AND KEY ELIGIBILITY

~100 patients

Platinum-resistant disease (primary PFI >3 mos)

Prior bevacizumab required Prior PARPi allowed Patients with BRCA mutations allowed

TARGET TIMELINES



80

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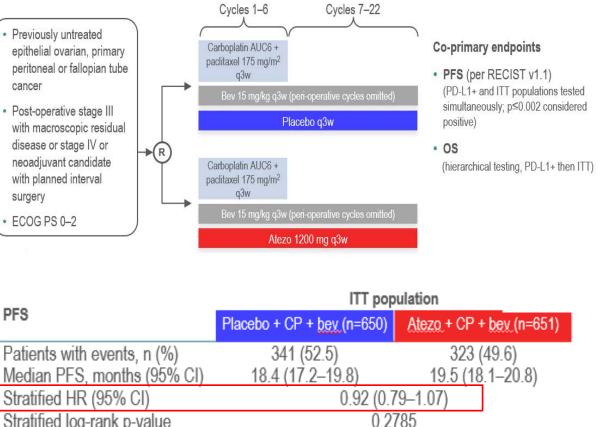
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Randomized Phase 3 Trials of Immune Checkpoint Inhibitors in Front Line Ovarian Cancer: A Tale of Two Trials

JAVELIN OVARIAN 100 Chemotherapy Maintenance phase Previously untreated phase (6 cycles)* (up to 24 months) epithelial ovarian, primary Endpoints Key eligibility criteria Carboplatin + Avelumab peritoneal or fallopian tube Primary endpoint: PFS Paclitaxel Previously untreated. (BICR assessed) for cancer histologically N=332 IV Q2W each of the 2 confirmed stage III-IV treatment comparisons Post-operative stage III EOC Carboplatin + – Chemo → avelumab with macroscopic residual Post-debulking Paclitaxel + Avelumab CR, vs chemo alone disease or stage IV or surgery or candidate Avelumab PR. or 10 mg/kg Chemo + avelumab for neoadjuvant 1-1-1 neoadiuvant candidate 10 mg/kg IV Q3W \rightarrow avelumab vs SD IV Q2W chemotherapy chemo alone with planned interval N=331 ECOG PS 0-1 Secondary endpoints surgery Stratification factors Unselected for included ÓS, objective Carboplatin + Paclitaxel (QW vs PD-L1 expression response, safety, and • ECOG PS 0-2 Q3W) Paclitaxel Observation translational analyses N=998 Resection (complete/ N=335 microscopic vs incomplete ≤1 cm vs incomplete >1 cm vs neoadiuvant) NOT02740447 Chemo + Avel Chemo \rightarrow Obs PFS Chemo → PFS Avel (N=332) → Avel (N=331) (N=335) Patients with events, n (%) Events, n (%) 99 (29.8) 88 (26.6) 70 (20.9) Median (95% CI), months 16.8 (13.5, NE) 18.1 (14.8, NE) NE (18.2, NE) Stratified HR (95% CI) Stratified HR vs control 1.43 1.14 Stratified log-rank p-value (1.051, 1.946)(95% CI) (0.832, 1.565)2-year event-free rate (95% CI) 0.9890 0.7935 p value vs control*

IMagyn050



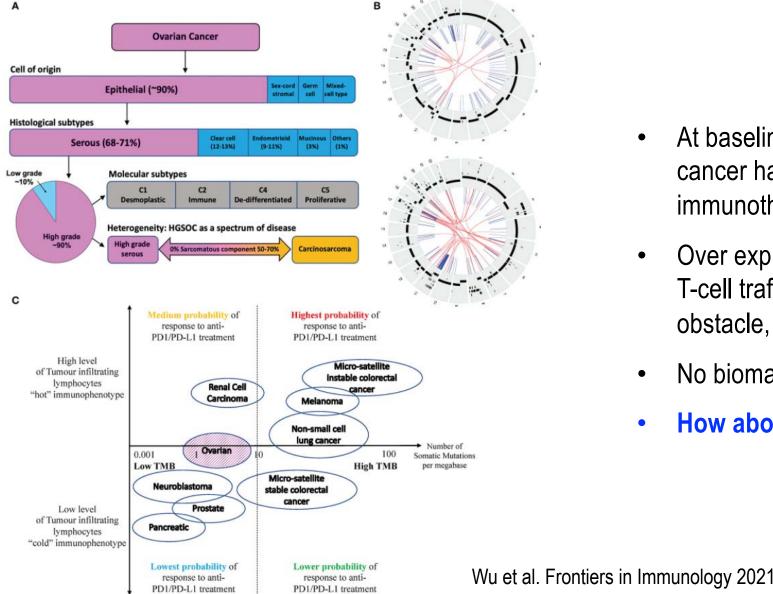
29.1 (23.9-34.3)

Ledermann et al. SGO Annual Meeting (virtual) 2020); Moore et al. J Clin Oncol 2021

Courtesy of Kathleen Moore, MD

35.1 (30.0-40.3)

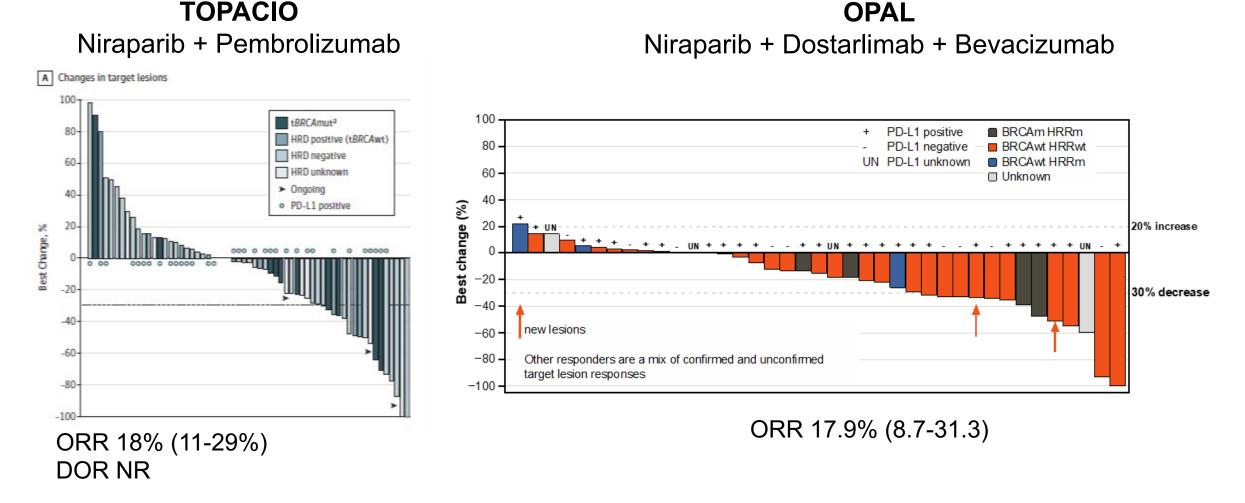
Randomized Phase 3 Trials of Immune Checkpoint Inhibitors in Front Line Ovarian Cancer: A Tale of Two Trials



What Happened?

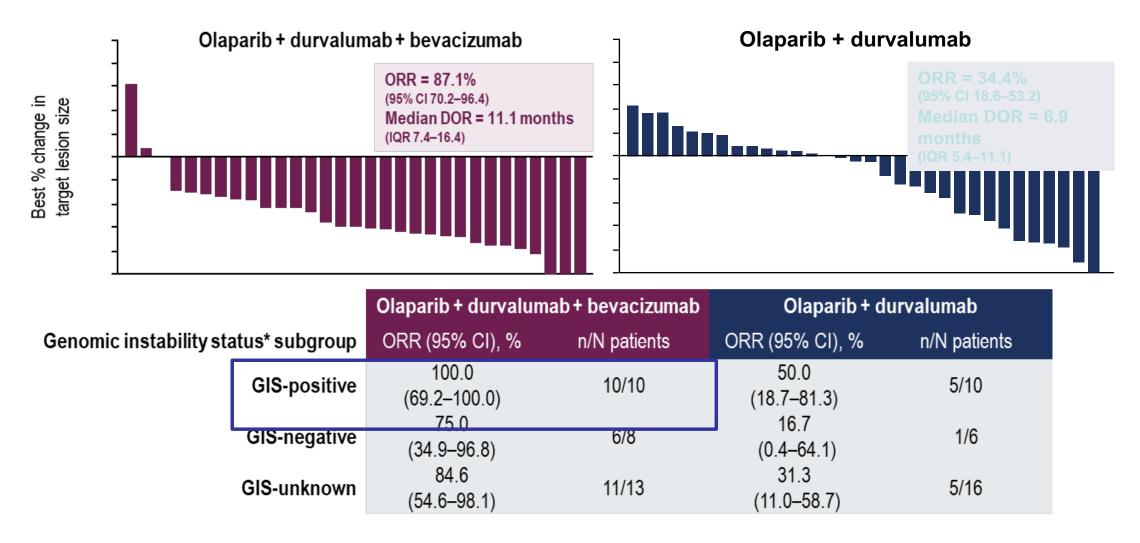
- At baseline, the majority of epithelial ovarian cancer has a lower probability of responding to immunotherapy
- Over expression of FAK and VEGF may impair T-cell trafficking, although if this were major obstacle, IMagyn050 should have worked
- No biomarkers for patient selection
- How about Combinations?

Early Reports of Combination of PARPi and Immune Checkpoint Inhibitors Have Demonstrated Modest Efficacy in platinum-resistant ovarian cancer



Konstantinopoulos et al. JAMA Oncol. 2019;5(8):1141-1149; Liu et al. Society of Gynecologic Oncology Annual Meeting 2021

Is this more a platinum sensitive strategy? **MEDIOLA**



Drew et al. ESMO Virtual 2020 Congress

Future Directions in the Front Line

Trial	Size	Anti- angiogenic	PARPi	ICI	Start	Estimated Primary Completion
FIRST ^[a] ENGOT OV-44	1405	<u>+</u> Bevacizumab	Niraparib	Dostarlimab	Oct 2018	Jan 2023
DUO-O ^[b] ENGOT OV-46	~1254	Bevacizumab	Olaparib	Durvalumab	Jan 2019	June 2023
ATHENA ^[c] GOG-3020 ENGOT OV-45	~1000	-	Rucaparib	Nivolumab	May 2018	Dec 2024
ENGOT OV- 43 ^[d] KEYLYNK-001	~1086	<u>+</u> Bevacizumab	Olaparib	Pembrolizumab	Dec 2018	Aug 2025

a. ClinicalTrials.gov. NCT03602859; b. ClinicalTrials.gov. NCT03737643; c. ClinicalTrials.gov. NCT03522246; d. NCT03740165.

A Conversation with the Investigators: Hormonal Therapy for Prostate Cancer

Monday, July 12, 2021 5:00 PM – 6:00 PM ET

Faculty Simon Chowdhury, MD, PhD Tanya B Dorff, MD Matthew R Smith, MD, PhD

Moderator Neil Love, MD



Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 24 hours.

