Year in Review: Clinical Investigator Perspectives on the Most Relevant New Data Sets and Advances in Oncology

Gynecologic Oncology

Tuesday, January 24, 2023 5:00 PM - 6:00 PM ET

Faculty

Michael J Birrer, MD, PhD Kathleen N Moore, MD, MS Krishnansu S Tewari, MD



Faculty



Michael J Birrer, MD, PhD
Vice Chancellor, UAMS
Director, Winthrop P Rockefeller Cancer Institute
Director, Cancer Service Line
Professor of Biochemistry and Molecular Biology
Director's Endowed Chair for the Winthrop P
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Director, TSET Phase I Drug Unit
Co-Director, Cancer Therapeutics Program
Stephenson Cancer Center at the University
of Oklahoma HSC
Associate Director, GOG Partners
Board of Directors, GOG Foundation
Oklahoma City, Oklahoma



MODERATOR
Neil Love, MD
Research To Practice
Miami, Florida



We Encourage Clinicians in Practice to Submit Questions



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Clinicians in the Audience, Please Complete the Pre- and Postmeeting Surveys







ONCOLOGY TODAY

WITH DR NEIL LOVE

Role of PARP Inhibition in Ovarian Cancer



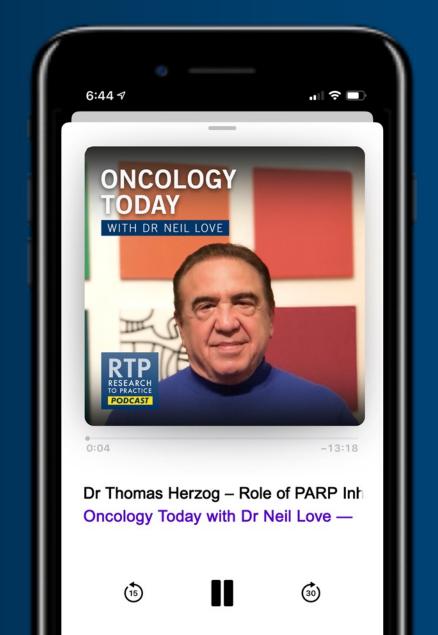
DR THOMAS HERZOG

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Oncology Today with Dr Neil Love — Thyroid Cancer and Neuroendocrine Tumors

A CME/MOC-Accredited Virtual Event

Wednesday, January 25, 2023 5:00 PM - 6:00 PM

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Meet The Professor Optimizing the Management of Multiple Myeloma

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A Multitumor CME/MOC-Accredited Live Webinar Series

Hodgkin and Non-Hodgkin Lymphomas

Wednesday, February 1, 2023 5:00 PM - 6:00 PM ET

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Christopher R Flowers, MD, MS Laurie H Sehn, MD, MPH



Inside the Issue — Optimizing the Management of Adverse Events Associated with BTK Inhibitors

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Kerry A Rogers, MD



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Agenda

INTRODUCTION

MODULE 1: Ovarian Cancer

- PARP inhibitors as primary maintenance
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- Antibody-drug conjugates: Mirvetuximab soravtansine; upifitamab rilsodotin

MODULE 2: Endometrial Cancer

- Immunotherapy for metastatic disease
- Selinexor as maintenance therapy
- Other novel agents

MODULE 3: Cervical Cancer

- Immunotherapy for metastatic disease
- Antibody-drug conjugate: Tisotumab vedotin



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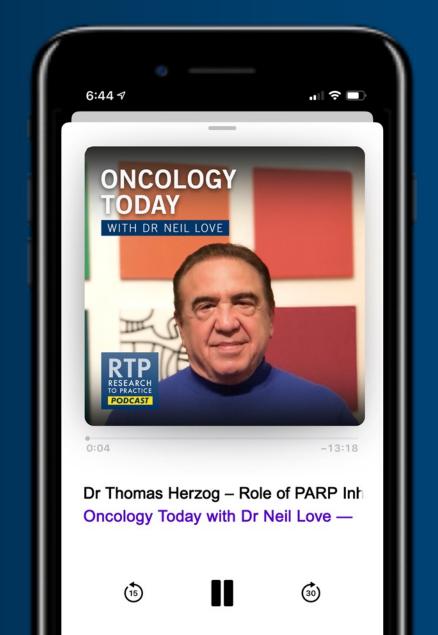
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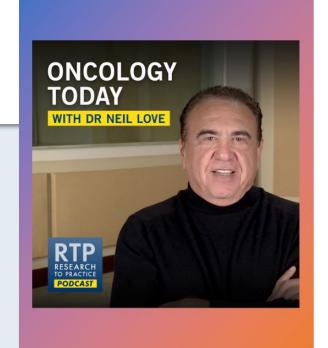
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Research To Practice Year In Review 2022

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Virginia Kerley Cade Chair in Developmental Therapeutics
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Stephenson Cancer Center
Associate Director, GOG Partners
GOG Foundation BOD



Year in Review Clinical Investigator Perspectives GYNECOLOGIC ONCOLOGY EDITION



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Professor-with-Tenure & Division Director
The Philip J. <u>DiSaia</u>, MD Endowed Chair
in Gynecologic Oncology
University of California, Irvine

Key Data Sets

Kathleen N Moore, MD, MS

- DiSilvestro P et al. Overall survival (OS) at 7-year (y) follow-up (f/u) in patients (pts) with newly diagnosed advanced ovarian cancer (OC) and a BRCA mutation (BRCAm) who received maintenance olaparib in the SOLO1/GOG-3004 trial. ESMO 2022; Abstract 517O.
- Ray-Coquard IL et al. Final overall survival (OS) results from the phase III PAOLA-1/ENGOT-ov25 trial evaluating maintenance olaparib (ola) plus bevacizumab (bev) in patients (pts) with newly diagnosed advanced ovarian cancer (AOC). ESMO 2022; Abstract LBA29.
- Gonzalez Martin AJ et al. PRIMA/ENGOT-OV26/GOG-3012 study: Updated long-term PFS and safety. ESMO 2022; Abstract 530P.
- Li N et al. Efficacy and safety of niraparib as maintenance treatment in patients with newly diagnosed advanced ovarian cancer using an individualized starting dose (PRIME study): A randomized, double-blind, placebo-controlled, phase 3 trial. SGO 2022; Abstract LBA5.
- Monk BJ et al. A randomized, phase III trial to evaluate rucaparib monotherapy as maintenance treatment in patients with newly diagnosed ovarian cancer (ATHENA-MONO/GOG-3020/ENGOT-ov45). *J Clin Oncol* 2022;40(34):3952-64.



Kathleen N Moore, MD, MS (continued)

- Hardesty MM et al. OVARIO phase II trial of combination niraparib plus bevacizumab maintenance therapy in advanced ovarian cancer following first-line platinum-based chemotherapy with bevacizumab. *Gynecol Oncol* 2022;166(2):219-29.
- Penson R et al. Final overall survival results from SOLO3: Phase III trial assessing olaparib monotherapy versus non-platinum chemotherapy in heavily pretreated patients with germline BRCA1- and/or BRCA2-mutated platinum-sensitive relapsed ovarian cancer. SGO 2022; Abstract 26.
- Oza AM et al. Overall survival results from ARIEL4: A phase III study assessing rucaparib vs chemotherapy in patients with advanced, relapsed ovarian carcinoma and a deleterious BRCA1/2 mutation. ESMO 2022; Abstract 518O.
- Selle F et al. OReO/ENGOT Ov-38 trial: Impact of maintenance olaparib rechallenge according to ovarian cancer patient prognosis An exploratory joint analysis of the BRCA and non-BRCA cohorts. ASCO 2022; Abstract 5573.
- Banerjee S et al. Phase II study of olaparib plus durvalumab with or without bevacizumab (MEDIOLA): Final analysis of overall survival in patients with non-germline BRCA-mutated platinum-sensitive relapsed ovarian cancer. ESMO 2022; Abstract 529MO.

Kathleen N Moore, MD, MS (continued)

- Matulonis U et al. Efficacy and safety of mirvetuximab soravtansine in patients with platinumresistant ovarian cancer with high folate receptor alpha expression: Results from the SORAYA study. SGO 2022; Abstract LBA4.
- Matulonis UA et al. Mirvetuximab soravtansine (MIRV) in patients with platinum-resistant ovarian cancer with high folate receptor alpha ($FR\alpha$) expression: Characterization of antitumor activity in the SORAYA study. ASCO 2022; Abstract 5512.
- O'Malley D et al. Mirvetuximab soravtansine and bevacizumab in folate receptor αlpha-positive ovarian cancer: Efficacy in patients with and without prior bevacizumab. IGCS 2022;Abstract O011.
- Richardson DL et al. Updated results from the Phase 1 expansion study of upifitamab rilsodotin (UpRi; XMT-1536), a NaPi2b-directed dolaflexin antibody drug conjugate (ADC) in ovarian cancer. SGO 2022; Abstract 76.
- Richardson DL et al. UPLIFT (ENGOT-ov67/GOG-3048): A pivotal cohort of upifitamab rilsodotin (XMT-1536; UpRi), a NaPi2b-directed dolaflexin antibody drug conjugate (ADC) in platinum-resistant ovarian cancer. SGO 2022; Abstract 585.



Krishnansu S Tewari, MD

- Maio M et al. Pembrolizumab in microsatellite instability high or mismatch repair deficient cancers: Updated analysis from the phase II KEYNOTE-158 study. Ann Oncol 2022;33(9):929-38.
- Oaknin A et al Dostarlimab in advanced/recurrent (AR) mismatch repair deficient/microsatellite instability—high or proficient/stable (dMMR/MSI-H or MMRp/MSS) endometrial cancer (EC): The GARNET study. ASCO 2022;Abstract 5509.
- Makker V et al. Lenvatinib plus pembrolizumab for advanced endometrial cancer. N Engl J Med 2022;386(5):437-48.
- Makker V et al. Updated efficacy and safety of lenvatinib (LEN) + pembrolizumab (pembro) vs treatment of physician's choice (TPC) in patients (pts) with advanced endometrial cancer (aEC): Study 309/KEYNOTE-775. ESMO 2022; Abstract 525MO.
- Vergote IB et al. Prospective double-blind, randomized phase III ENGOT-EN5/GOG-3055/SIENDO study of oral selinexor/placebo as maintenance therapy after first-line chemotherapy for advanced or recurrent endometrial cancer. ESMO Virtual Plenary 2022; Abstract VP2-2022.



Krishnansu S Tewari, MD (continued)

- Makker V et al. Randomized phase III study of maintenance selinexor versus placebo in endometrial cancer (ENGOT-EN5/GOG-3055/SIENDO): Impact of subgroup analysis and molecular classification. ASCO 2022; Abstract 5511.
- You B et al. Safety and efficacy of olaparib combined to metronomic cyclophosphamide and metformin in recurrent advanced/metastatic endometrial cancer patients: ENDOLA trial. AACR 2022; Abstract CT005.
- Mauricio D et al. Trastuzumab deruxtecan (DS-8201a), a HER2-targeting antibody-drug conjugate with topoisomerase I inhibitor payload, shows antitumor activity in uterine and ovarian carcinosarcoma with HER2/neu expression. SGO 2022; Abstract 46.
- Tewari KS et al. Pembrolizumab + chemotherapy in patients with persistent, recurrent, or metastatic cervical cancer: Subgroup analysis of KEYNOTE-826. ASCO 2022; Abstract 5506.



Krishnansu S Tewari, MD (continued)

- Monk B et al. Patient-reported outcomes from the phase 3 randomized, double-blind, KEYNOTE-826 trial of pembrolizumab plus chemotherapy versus placebo plus chemotherapy for the first-line treatment of persistent, recurrent, or metastatic cervical cancer. SGO 2022; Abstract 23.
- Tewari KS et al. Survival with cemiplimab in recurrent cervical cancer. *N Engl J Med* 2022;386(6):544-55.
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- Kim SK et al. Mitigation and management strategies for ocular events associated with tisotumab vedotin. *Gynecol Oncol* 2022;165(2):385-92.



INTRODUCTION: Gynecologic Oncology in the Real World

MODULE 1: Ovarian Cancer

- PARP inhibitors as primary maintenance
- PARP inhibitors for recurrent and metastatic disease
- Antibody-drug conjugates: Mirvetuximab soravtansine; upifitamab rilsodotin

MODULE 2: Endometrial Cancer

- Immunotherapy for metastatic disease
- Selinexor as maintenance therapy
- Other novel agents

- Immunotherapy for metastatic disease
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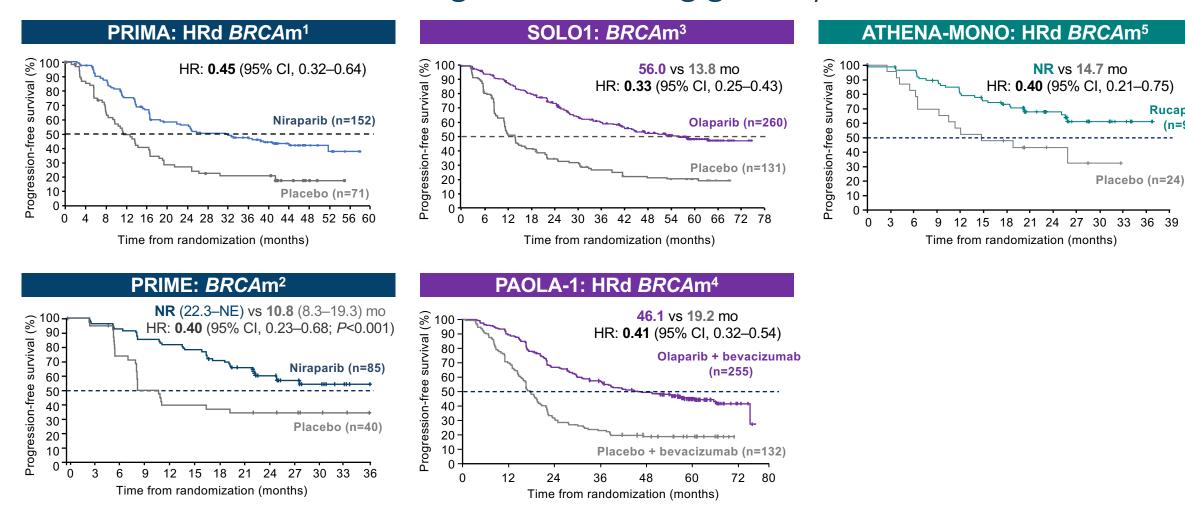
MODULE 2: Endometrial Cancer

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PARP inhibitors are changing the course of disease for patients with BRCAm ovarian cancer: PFS data is groundbreaking globally



BRCA, BRCA DNA repair associated gene; BRCAm, BRCA mutated; CI, confidence interval; HR, hazard ratio; HRd, homologous recombination deficient; mo, months; NE, not estimable; NR, not reached; PARP, poly (ADPribose) polymerase.

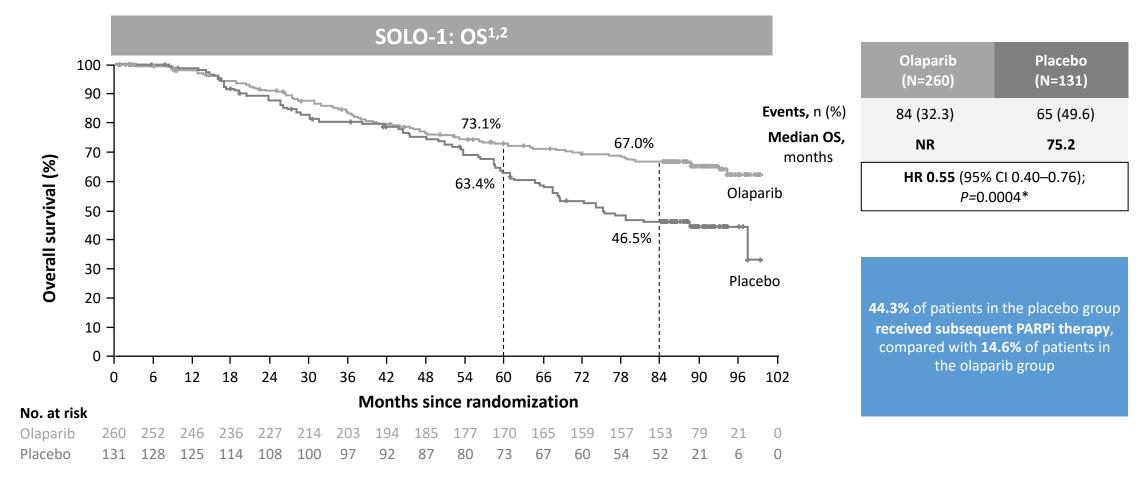
1. González-Martín A et al. ESMO Congress 2022; Abstract 530P. 2. Li N et al. SGO Annual Meeting on Women's Cancer 2022; Abstract LBA 5. 3. Bradley W et al. SGO Virtual Annual Meeting on Women's Cancer 2021; Abstract 10520. 4. Ray-Coquard I et al. ESMO Congress 2022; Abstract LBA29. 5. Monk BJ et al. ASCO Annual Meeting 2022; Abstract LBA5500.

Courtesy of Kathleen Moore, MD, MS

Rucaparib

(n=91)

SOLO 1: Maintenance olaparib provided a clinically meaningful OS benefit versus placebo in BRCAmut EOC

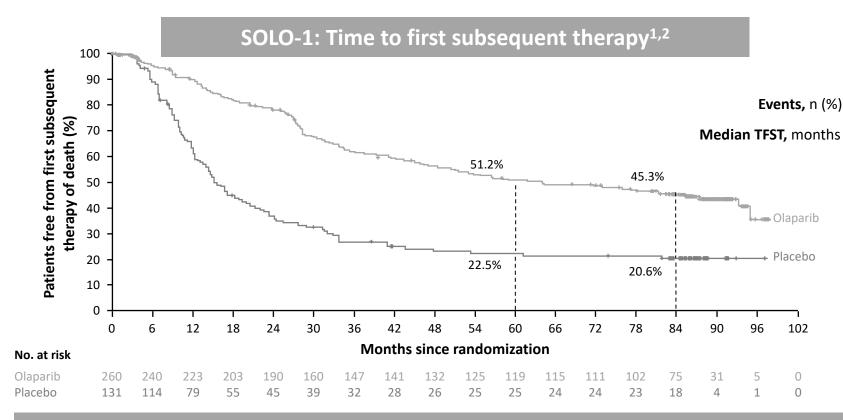


*HR for median OS was not statistically significant due to the alpha assignment of 0.0001 (P<0.0001 required to declare statistical significance)



^{1.} DiSilvestro P et al. Presented at: ESMO Annual Meeting 2022. 2. Di Silvestro.P, et al. 2022 J Clin Oncol.

Are we now beginning to see the possibility of cure for patients with advanced ovarian cancer and a BRCA mutation? TFST may be a surrogate for those who are cured.



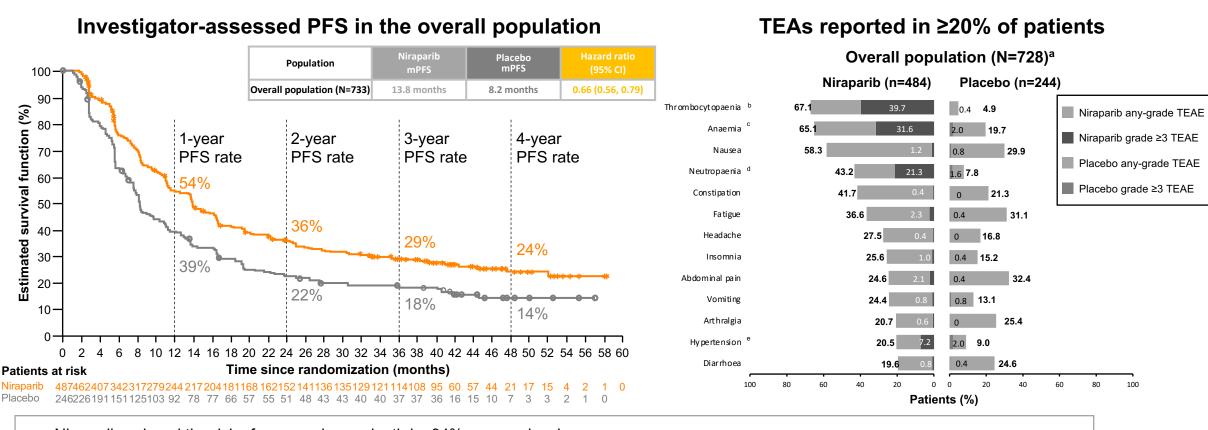
Olaparib (N=260)	Placebo (N=131)	
135 (51.9)	98 (74.8)	
64.0	15.1	
HR 0.37 (95% CI 0.28-0.48)		

In the olaparib arm **45%** of patients who were still alive at 7 years had yet to receive any subsequent treatment

1. DiSilvestro P et al. J Clin Oncol 2022.



PRIMA: Niraparib maintenance therapy significantly improved PFS vs placebo in the overall population¹



Niraparib reduced the risk of progression or death by 34% versus placebo

Adverse event findings were consistent with the primary analysis, with no new safety signals

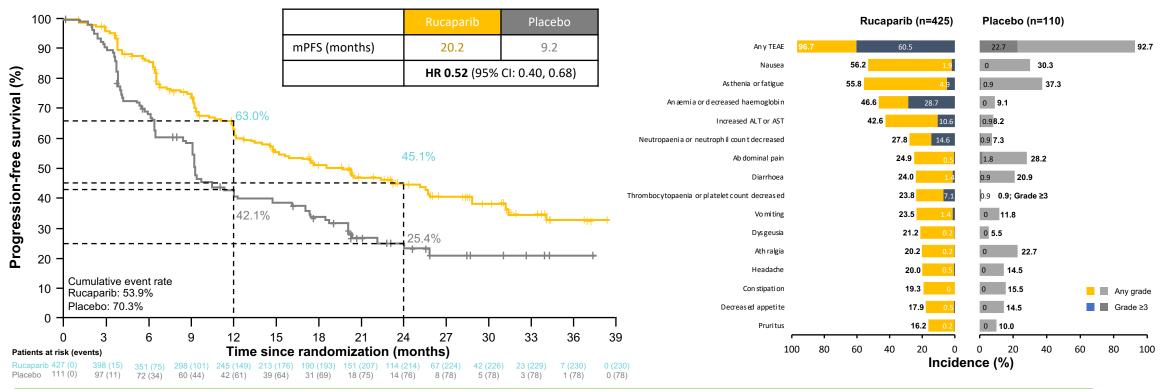
Courtesy of Kathleen Moore, MD, MS



ATHENA-MONO: Rucaparib monotherapy maintenance treatment significantly improved investigator-assessed PFS versus placebo in the ITT population

Investigator-assessed PFS in the ITT population

Most common TEAEs (≥15% any grade)^a

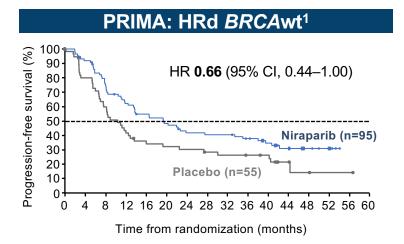


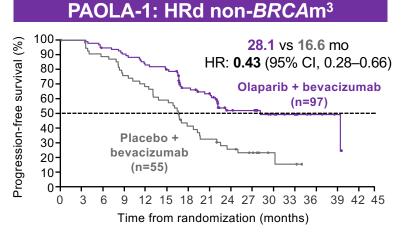
- Rucaparib reduced the risk of progression or death by 48% versus placebo
- Adverse event findings were consistent with the primary analysis, with no new safety signals

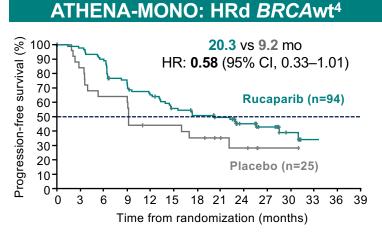
Courtesy of Kathleen Moore, MD, MS



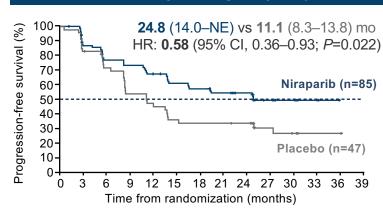
PFS benefit of PARPi maintenance decreased in *BRCA*wt/HRd cohorts compared with *BRCA*m, but improvement still seen



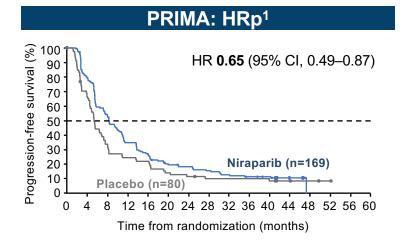


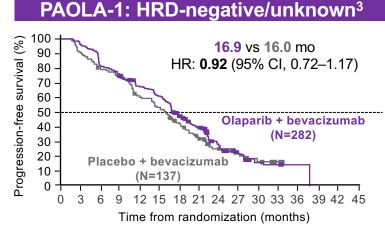


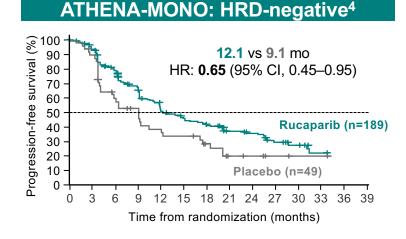
PRIME: Non-BRCAm/HRd²



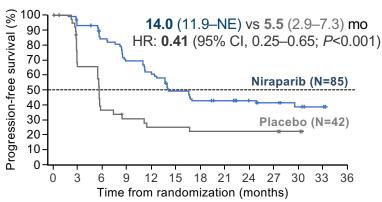
PARPi maintenance is less effective in HRp disease, with mixed PFS results observed across trials

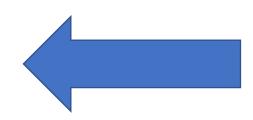












BRCA, BRCA DNA repair associated gene; BRCAm, BRCA mutated; CI, confidence interval; HR, hazard ratio; HRD, homologous recombination deficiency; HRp, homologous recombination proficient; mo, months; NE, not estimable; PARPi, poly (ADP-ribose) polymerase inhibitor; PFS, progression-free survival.

1. González-Martín A et al. ESMO Congress 2022; Abstract 530P. 2. Li N et al. SGO Annual Meeting on Women's Cancer 2022; Abstract LBA 5. 3. Ray-Coquard I et al. ESMO Congress 2019; Abstract 3955. 4. Monk BJ et al. ASCO

Annual Meeting 2022; Abstract LBA5500.

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Discussion Question

A 65-year-old woman with ovarian cancer who is s/p cytoreductive surgery and post-operative carboplatin/paclitaxel now presents with metastatic disease.

Scenario A: Germline BRCA mutation

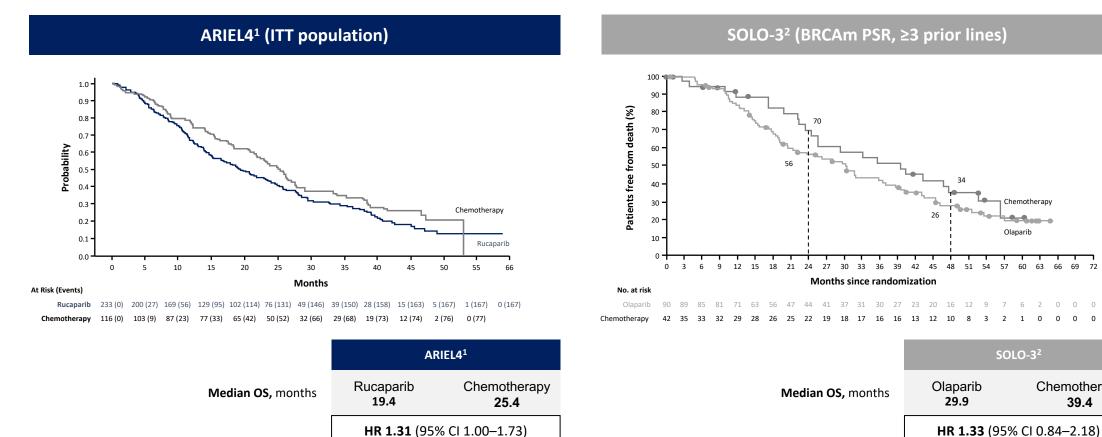
Scenario B: BRCA wild type, HR proficient

In what situation(s) would you use a PARP inhibitor? Which PARP inhibitor would you use? How would you use a PARP inhibitor?



ASCO 2022 Guidelines Caution Use of PARPi as *Treatment* in BRCA+ Recurrent Disease: Why?

PARPi monotherapy should not be routinely offered to patients for the **treatment** of recurrent platinum sensitive EOC. (Type: Evidence-based, benefits outweigh harms; Evidence quality: Intermediate; Strength of recommendation: Moderate.) Evidence on PARPi use in this setting is evolving. Any decision to proceed with PARPi treatment in select populations (BRCA +, PARPi naive, PSOC) should be individualized



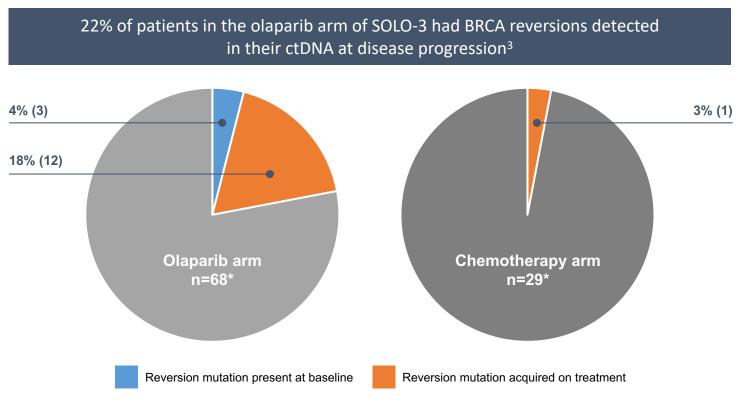
^{1.} Dear Health Care Provider Letter (Rucaparib), May 2022. 2.Leath C, et al. Presented at IGCS Annual Global Meeting, September 2022; Tew WP, Kohn E, et al. PARP inhibitors in the management of ovarian cancer: ASCO guideline rapid recommendation update. J Clin Oncol 2022: DOI https://doi. org/10.1200/JCO.22. 01934

Chemotherapy

39.4

Could BRCA reversions contribute to worse OS outcomes with PARPi vs chemotherapy in late line relapsed OC?

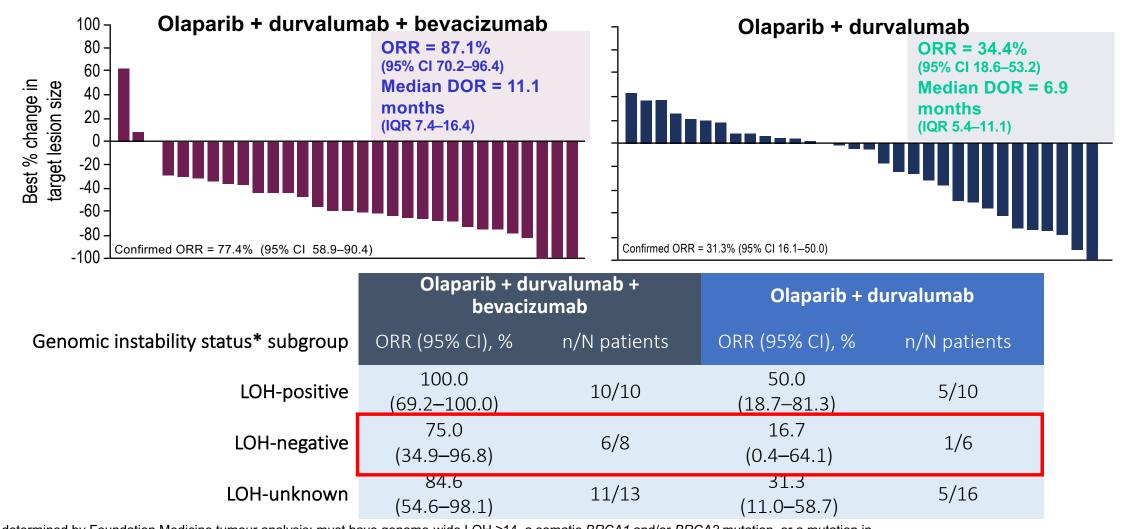
- BRCA reversions are a mechanism of resistance to PARPi inhibitors and platinum-based chemotherapy¹
- In SOLO-3, no responses to olaparib were seen for patients with BRCA reversions identified at baseline²



^{*}Evaluable patients who had paired plasma samples collected at baseline and disease progression

^{1.} Leath CA, et al. IGCS Annual Global Meeting, September 29 to October 1, 2022. 2. Penson RT, et al. Society of Gynecologic Oncology 2022 Annual Meeting on Women's Cancer; 18–21 March 2022; abstract 26; 3. Lukashchuk N, et al. J Clin Oncol 2022; 40 (Suppl 16): abstr 5559 and poster presented at American Society of Clinical Oncology (ASCO) Annual Meeting 2022; 3–7 June 2022; poster 438.

Mediola: Plat Sensitive/BRCAwt Triplet cohort demonstrates high ORR and not LOH-dependent



*GIS, as determined by Foundation Medicine tumour analysis; must have genome-wide LOH ≥14, a somatic *BRCA1* and/or *BRCA2* mutation, or a mutation in *ATM*, *BRIP1*, *PALB2*, *RAD51C*, *BARD1*, *CDK12*, *CHEK1*, *CHEK2*, *FANCL*, *PPP2R2A*, *RAD51B*, *RAD51D* or *RAD54L* to be considered positive. At the time of the DCO, the prespecified cut-off for genome-wide LOH of 14% was used¹; GIS, genomic instability status; IQR, interquartile range; LOH, loss of heterozygosity.

Courtesy of Kathleen Moore, MD, MS Drew et al ESMO 2020; Abstract 814MO

INTRODUCTION: Gynecologic Oncology in the Real World

MODULE 1: Ovarian Cancer

- PARP inhibitors as primary maintenance
- PARP inhibitors for recurrent and metastatic disease
- Antibody-drug conjugates: Mirvetuximab soravtansine; upifitamab rilsodotin

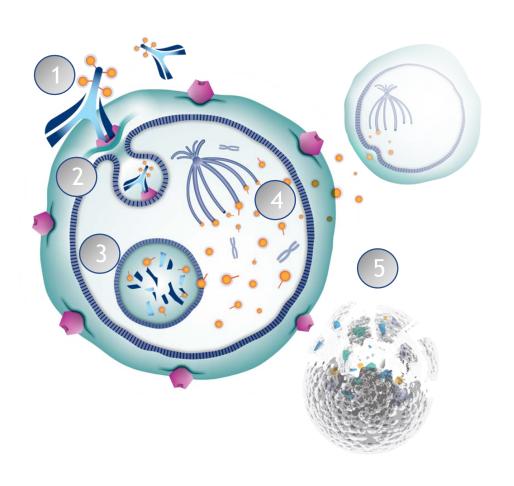
MODULE 2: Endometrial Cancer

- Immunotherapy for metastatic disease
- Selinexor as maintenance therapy
- Other novel agents

- Immunotherapy for metastatic disease
- Antibody-drug conjugate: Tisotumab vedotin



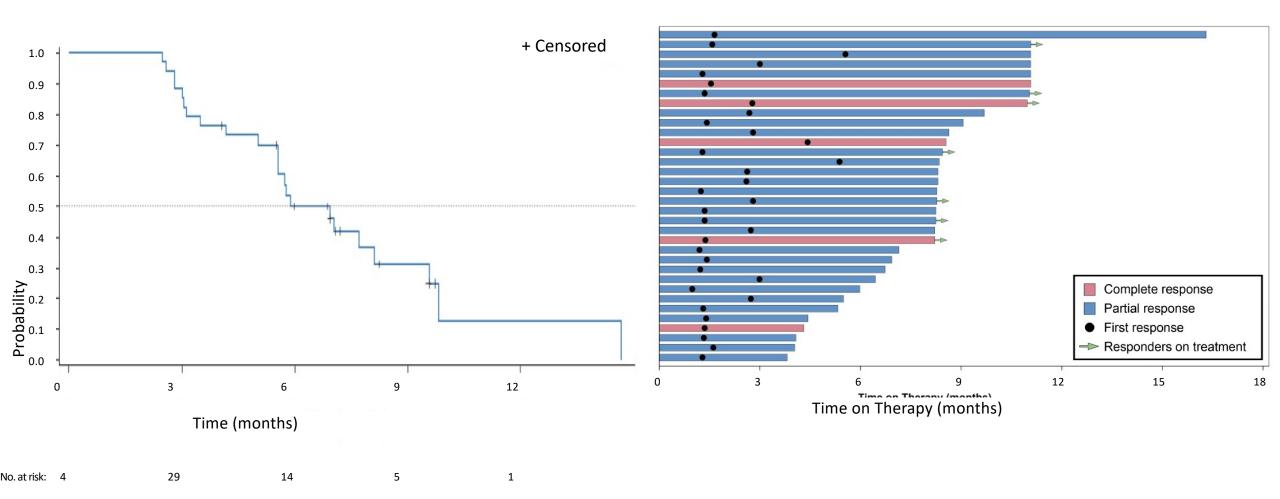
Mirvetuximab Soravtansine (MIRV)



- 1. The antibody portion of MIRV binds to $FR\alpha$ found on the surface of epithelial ovarian cancer cells
- 2. MIRV is internalized via endocytosis
- 3. MIRV is degraded within the lysosome to release its cytotoxic payload (DM4)
- 4. DM4 disrupts tubulin resulting in mitotic arrest and apoptosis
- 5. DM4 also diffuses through the lipophilic cell membrane allowing bystander killing on adjacent tumor cells

SORAYA Duration of Response

mDOR: 6.9 months (95% CI: 5.6, 8.1)



Treatment-Related Adverse Events (TRAE's)

Treatment-Related Adverse Events (≥10%) (N=106)

TRAEs, n (%)	All grades	Grade 3	Grade 4
Blurred vision	43 (41)	6 (6)	0
Keratopathya	31 (29)	8 (8)	1 (1)
Nausea	31 (29)	0	0
Dry eye	26 (25)	2 (2)	0
Fatigue	25 (24)	1 (1)	0
Diarrhea	23 (22)	2 (2)	0
Asthenia	16 (15)	1 (1)	0
Photophobia	14 (13)	0	0
Peripheral neuropathy	14 (13)	0	0
Decreased appetite	14 (13)	1 (1)	0
Neutropenia	14 (13)	2 (2)	0
Vomiting	12 (11)	0	0

- Adverse events were primarily low-grade, reversible ocular and gastrointestinal events
- Serious (grade ≥3) TRAEs occurred in 9% of patients
- TRAEs led to dose delays in 33% of patients and dose reductions in 20% of patients
- 9% discontinued treatment due to TRAEs; one patient discontinued due to an ocular TRAE

WARNING: OCULAR TOXICITY See full prescribing information for complete boxed warning.

- ELAHERE can cause severe ocular toxicities, including visual impairment, keratopathy, dry eye, photophobia, eye pain, and uveitis. (5.1, 6.1)
- Conduct an ophthalmic exam including visual acuity and slit lamp exam prior to initiation of ELAHERE, every other cycle for the first 8 cycles, and as clinically indicated. (2.3)
- Administer prophylactic artificial tears and ophthalmic topical steroids. (2.3, 5.1)
- Withhold ELAHERE for ocular toxicities until improvement and resume at the same or reduced dose. (2.4, 5.1)
- Discontinue ELAHERE for Grade 4 ocular toxicities. (2.4, 5.1)

^aThe grouped preferred term "Keratopathy" includes the following preferred terms: corneal cyst, corneal disorder, corneal epithelial microcysts, keratitis, keratopathy, limbal stem cell deficiency, corneal opacity, corneal erosion, corneal pigmentation, corneal deposits, keratitis interstitial, and punctate keratitis. Data cutoff: April 29, 2022.



Contents lists available at ScienceDirect

Cancer Treatment Reviews

journal homepage: www.elsevier.com/locate/ctrv



Anti-tumour Treatment

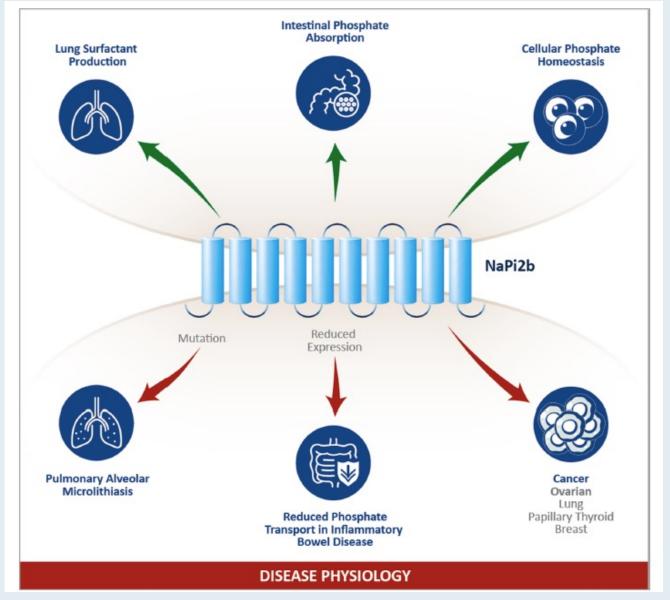
Targeting NaPi2b in ovarian cancer

Susana Banerjee^{a,*}, Ronny Drapkin^b, Debra L. Richardson^c, Michael Birrer^d

Cancer Treat Rev 2023 January;112:102489

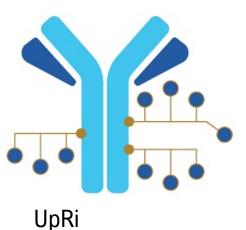


NaPi2b Sodium-Dependent Phosphate Transporter: Regulation of Physiologic Processes





Upifitamab Rilsodotin (UpRi) – First-in-Class ADC Targeting NaPi2b



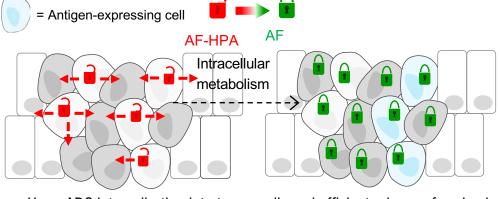
Antibody: Humanized monoclonal anti-NaPi2b1

Linker: Polymer scaffold; cleavable ester linker²

Payload: AF-HPA (DolaLock-controlled bystander

effect)1

Drug-to-Antibody Ratio: ~10

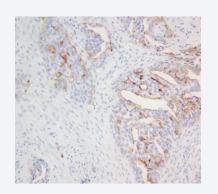


Upon ADC internalization into tumor cells and efficient release of payload, AF-HPA payload is metabolized to AF that remains highly potent but loses the ability to cross the cell membrane, locking it in the tumor, controlling the bystander effect, and consequently limiting impact on adjacent healthy cells^{2,3}

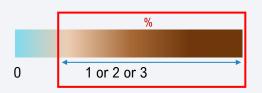
NaPi2b Is a Sodium-Dependent Phosphate Transporter Broadly Expressed in Ovarian Cancer With Limited Expression in Healthy Tissues⁴



- NaPi2b expressed by tumor cells in two-thirds of patients with high-grade serous ovarian cancer²
- NaPi2b is a lineage antigen (not an oncogene)¹



NaPi2b IHC assay in development – an optimal diagnostic assay would be robust, predictive, reproducible, easily able to distinguish a wide range of expression using TPS scoring method²



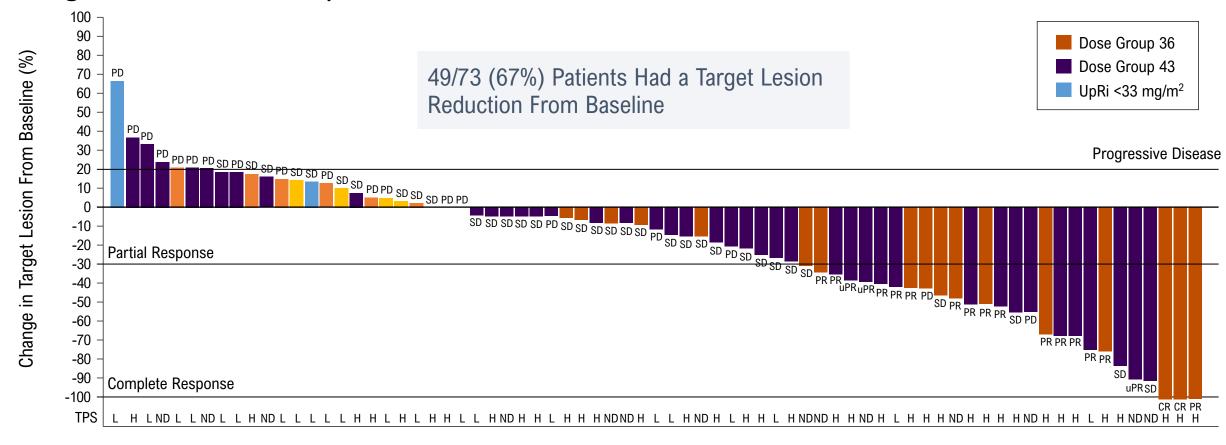
ADC, antibody drug conjugate; AF, auristatin F; AF-HPA, auristatin F-hydroxypropylamide; IHC, immunohistochemistry; NaPi2b, sodium-dependent phosphate transport protein 2B; TPS, tumor proportion score; UpRi, upifitamab rilsodotin.

1. Bodyak ND et al. Mol Cancer Ther. 2021;20(5):885–895. 2. Mersana. Data on File. 2022. 3. Tolcher AW et al. ASCO Annual Meeting 2019; Abstract 3010.

Courtesy of Kathleen Moore, MD, MS

Best Response by UpRi Dose Group

Similar Tumor Reduction in Both Dose Groups: Two-thirds of Patients Had Reductions in Target Tumor Lesions by RECIST 1.1

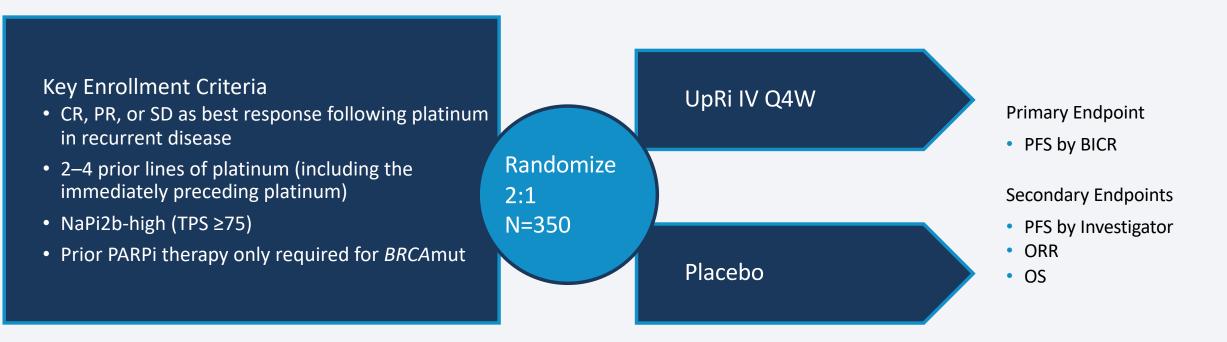


Data cut: June 10, 2021. Analysis with 73 evaluable patients. Two patients excluded as post-baseline tumor measurement shows "Not Measurable", yet "PD" was assigned by investigator in response dataset. There were 22 unevaluable patients: 4 in Dose Group 36, 2 patient withdrawals (1 enrolled in hospice), 2 patient deaths; 18 in Dose Group 43, 5 patient withdrawals, 1 clinical progression, 3 due to adverse events, 8 deaths, 1 had not reached first scan.



GOG-3049 / ENGOT-OV71-NSGO-CTU

Phase 3 Study of UpRi Monotherapy Maintenance vs Placebo in Recurrent Platinum-Sensitive Ovarian Cancer



Informed by FDA Feedback and CHMP Scientific Advice; Plans to Initiate in 2022

BICR, blinded independent central review; *BRCA*mut, breast cancer susceptibility gene mutated; CHMP, Committee for Medicinal Products for Human Use; CR, complete response; FDA, Food and Drug Administration; IV, intravenous; NaPi2b, sodium-dependent phosphate transport protein 2B; ORR, overall response rate; OS, overall survival; PARPi, poly (ADP-ribose) polymerase inhibitor; PFS, progression-free survival; PR, partial response; Q4W, every 4 weeks; SD, stable disease; TPS, tumor proportion score; UpRi, upifitamab rilsodotin.



INTRODUCTION: Gynecologic Oncology in the Real World

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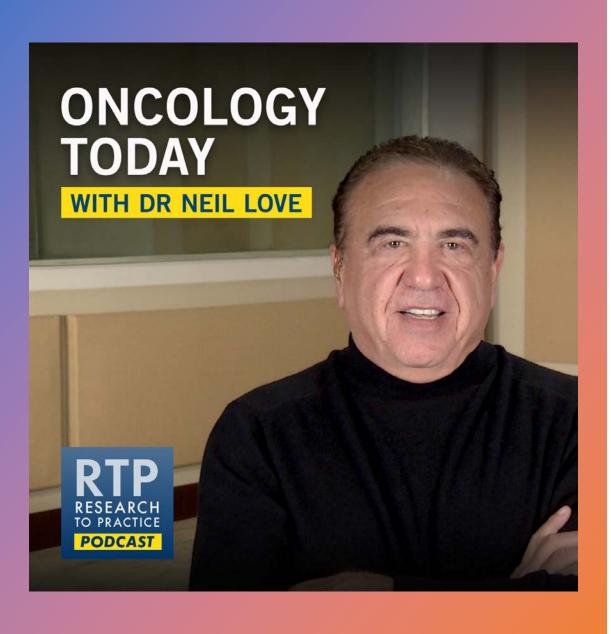
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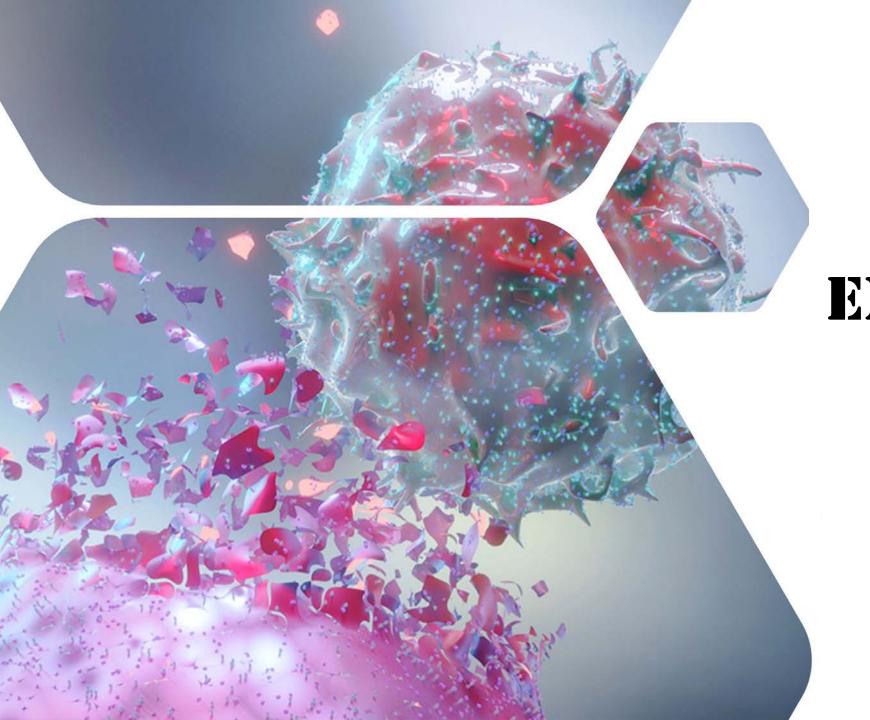




Year in Review Clinical Investigator Perspectives GYNECOLOGIC ONCOLOGY EDITION



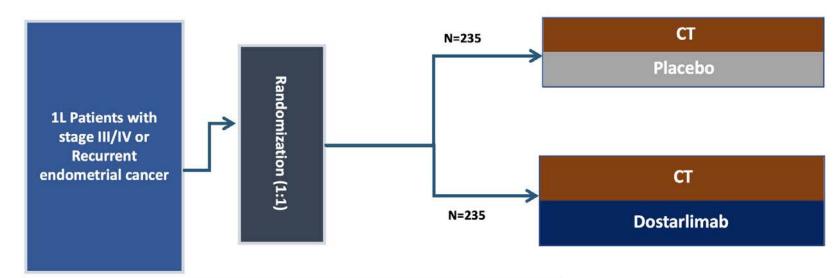
Krishnansu S. Tewari, MD, FACOG, FACS, FRSM
Professor-with-Tenure & Division Director
The Philip J. DiSaia, MD Endowed Chair
in Gynecologic Oncology
University of California, Irvine



ENDOMETRIAL CANCER

RUBY

ChemoRx plus Dostarlimab-



Patient population	1st line stage III/IV or Recurrent Endometrial Cancer	
Endpoints	PFS, OS, ORR, DOR, PRO	
Treatment Arm	Arm 1: Dostarlimab + Carboplatin+ Paclitaxel Arm 2: Placebo + Carboplatin + Paclitaxel	
Stratification Factors	MSI, Prior RT, Recurrent Disease	
Data Review	Investigator Assessment for PFS and ORR	

NCT03981796

Press Release: December 2, 2022

RUBY Phase III trial evaluating dostarlimab-gxly plus standard-of-care chemotherapy (carboplatin-paclitaxel) followed by dostarlimab compared to chemotherapy plus placebo followed by placebo in patients with primary advanced or recurrent endometrial cancer meets its primary endpoint in a planned interim analysis



Dostarlimab in Advanced/Recurrent Mismatch Repair Deficient/Microsatellite Instability—High or Proficient/Stable Endometrial Cancer: the GARNET study

Ana Oaknin, ¹ Bhavana Pothuri, ² Lucy Gilbert, ³ Renaud Sabatier, ⁴ Sharad Ghamande, ⁵ Adriano Gravina, ⁶ Emiliano Calvo, ⁷ Susana Banerjee, ⁸ Rowan E. Miller, ⁹ Joanna Pikiel, ¹⁰ Mansoor R. Mirza, ¹¹ Tao Duan, ¹² Sybil Zildjian, ¹³ Eleftherios Zografos, ¹⁴ Jennifer Veneris, ¹³ Anna V. Tinker ¹⁵

¹Gynaecologic Cancer Programme, Vall d'Hebron Institute of Oncology (VHIO), Hospital Universitari Vall d'Hebron, Vall d'Hebron Barcelona Hospital Campus, Barcelona, Spain; ²Gynecologic Oncology Group (GOG) and Department of Obstetrics/Gynecology, Laura & Isaac Perlmutter Cancer Center, NYU Langone Health, New York, NY, USA; ³Division of Gynecologic Oncology, McGill University Health Centre, Montreal, Quebec, Canada; ⁴Department of Medical Oncology, Institut Paoli Calmettes, Aix-Marseille University, Marseille, France; ⁵Department of Obstetrics & Gynecology, Georgia Cancer Center, Augusta University, Augusta, GA, USA; ⁵Clinical Trial Unit, Istituto Nazionale Tumori Fondazione G. Pascale, Naples, Italy; ¬START Madrid—CIOCC, Centro Integral Oncológico Clara Campal, Madrid, Spain; ³Gynaecology Unit, The Royal Marsden NHS Foundation Trust and Institute of Cancer Research, London, UK; ³University College London, St. Bartholomew's Hospitals London, UK; ¹Department of Chemotherapy, Regional Center of Oncology, Gdansk, Poland; ¹¹Department of Oncology, Rigshospitalet, Copenhagen University Hospital, Denmark, Nordic Society of Gynaecologic Oncology—Clinical Trial Unit, Copenhagen, Denmark; ¹²GlaxoSmithKline, Pennington, NJ, USA; ¹³GlaxoSmithKline, Waltham, MA, USA; ¹⁴GlaxoSmithKline, London, UK; ¹⁵Department of Medicine, British Columbia Cancer, Vancouver Centre, University of British Columbia, Vancouver, British Columbia, Canada







Primary Endpoint Analysis

	dMMR/MSI-H EC N=143	MMRp/MSS EC N=156
Median follow-up time, months	27.6	33.0
ORR, % (95% CI; n/N)	45.5% (37.1–54.0; 65/143)	15.4% (10.1–22.0; 24/156)
Complete response, n (%)	23 (16.1)	4 (2.6)
Partial response, n (%)	42 (29.4)	20 (12.8)
Stable disease, n (%)	21 (14.7)	29 (18.6)
Progressive disease, n (%)	51 (35.7)	88 (56.4)
Not evaluable, n (%)	6 (4.2)	15 (9.6)
Median time from cycle 1 day 1 to best overall response, mo		
Complete response	2.79	2.81
Partial response	2.69	2.79
Disease control rate, % (95% CI; n/N)	60.1% (51.6–68.2; 86/143)	34.0% (26.6–42.0; 53/156)
Response ongoing, n (%)	54 (83.1)	9 (37.5)
Median duration of response (range), months	NR (1.18+ to 47.21+)	19.4 (2.8 to 47.18+)
Probability of maintaining response, %		
6 months	96.8	82.6
12 months	93.3	60.3
24 months	83.7	44.2

- Dostarlimab demonstrated durable antitumor activity in both dMMR/MSI-H and MMRp/MSS advanced/recurrent EC
- Median follow-up 27.6m (dMMR/MSI-H) and 33.0m (MMRp/MSS)
- The probability of remaining in response at 24m was 83.7% (dMMR/MSI-H)
- Dostarlimab is the only PD-1 therapy tested q6wk dosing for EC
- Safety profile was manageable





ORIGINAL ARTICLE

Pembrolizumab in microsatellite instability high or mismatch repair deficient cancers: updated analysis from the phase II KEYNOTE-158 study

M. Maio^{1*}, P. A. Ascierto², L. Manzyuk³, D. Motola-Kuba⁴, N. Penel⁵, P. A. Cassier⁶, G. M. Bariani⁷, A. De Jesus Acosta⁸, T. Doi⁹, F. Longo¹⁰, W. H. Miller, Jr^{11,12}, D.-Y. Oh^{13,14,15}, M. Gottfried¹⁶, L. Xu¹⁷, F. Jin¹⁷, K. Norwood¹⁷ & A. Marabelle¹⁸

Endometrial n = 68

ORR, % (95% CI)	48.5 (36.2-61.0)
Best objective response, n (%)	
CR	10 (14.7)
PR	23 (33.8)
SD	13 (19.1)
PD	19 (27.9)
Not evaluable	1 (1.5)
No assessment	2 (2.9)
DOR, median (range), months	NR (2.9 to 47.1+)
Median PFS, months (95% CI)	13.1 (4.9-34.4)
PFS rate ≥3 years ^a , %	33.9
Median OS, months (95% CI)	NR (32.4-NR)
OS rate ≥3 years³, %	62.1

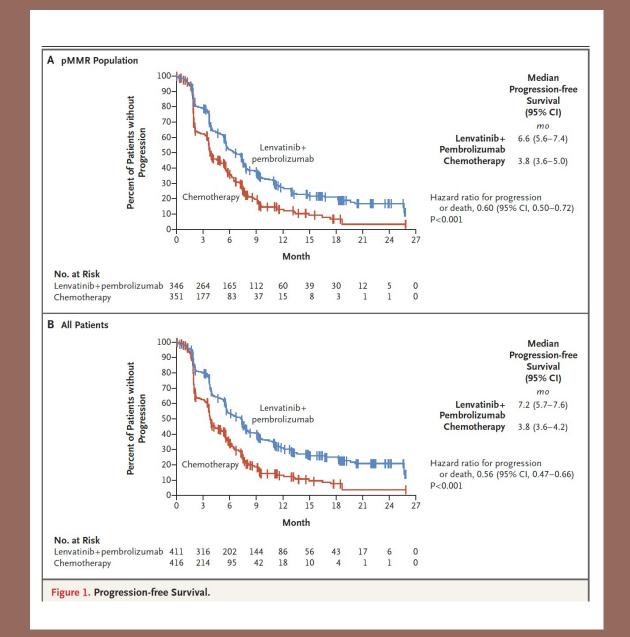
- Pembrolizumab Phase II KEYNOTE-158 Update
 - ORR 30.8%
 - Median DOR 47.5m
 - Manageable safety across a range of heavily pre-treated, advanced MSI-H/dMMR non-colorectal cancers

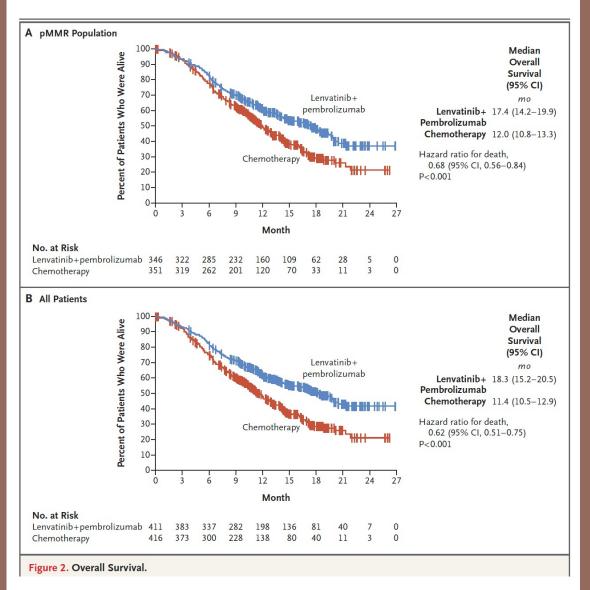
The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Lenvatinib plus Pembrolizumab for Advanced Endometrial Cancer

V. Makker, N. Colombo, A. Casado Herráez, A.D. Santin, E. Colomba, D.S. Miller, K. Fujiwara, S. Pignata, S. Baron-Hay, I. Ray-Coquard, R. Shapira-Frommer, K. Ushijima, J. Sakata, K. Yonemori, Y.M. Kim, E.M. Guerra, U.A. Sanli, M.M. McCormack, A.D. Smith, S. Keefe, S. Bird, L. Dutta, R.J. Orlowski, and D. Lorusso, for the Study 309–KEYNOTE-775 Investigators*





 The non-chemotherapy doublet of pembrolizumab plus Lenvatinib led to significantly longer PFS and OS than chemotherapy among patients with advanced EC

Agenda

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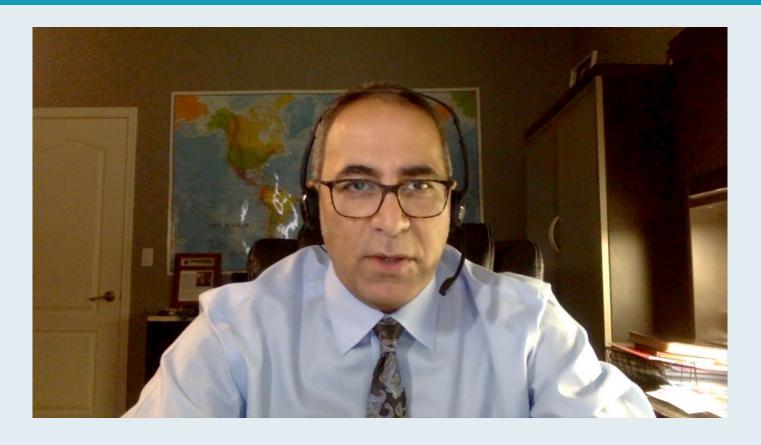
- Immunotherapy for metastatic disease
- Selinexor as maintenance therapy
- Other novel agents

MODULE 3: Cervical Cancer

- Immunotherapy for metastatic disease
- Antibody-drug conjugate: Tisotumab vedotin



Questions and Comments: Management of side effects associated with selinexor



Dr Joseph Mikhael (Phoenix, Arizona)





ESMO VIRTUAL PLENARY ABSTRACT

VP2-2022: Prospective double-blind, randomized phase III ENGOT-EN5/GOG-3055/SIENDO study of oral selinexor/placebo as maintenance therapy after first-line chemotherapy for advanced or recurrent endometrial cancer

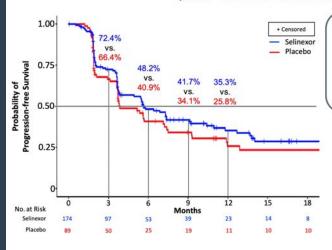
I. B. Vergote¹, A. Pérez Fidalgo², E. Hamilton³,
G. Valabrega⁴, T. Van Gorp⁵, J. Sehouli⁶, D. Cibula⁷,
T. Levy⁸, S. Welch⁹, D. L. Richardson¹⁰,
E. M. Guerra Alía¹¹, G. Scambia¹², S. Henry¹³,
P. Wimberger¹⁴, D. Miller¹⁵, J. Martínez¹⁶, B. J. Monk¹⁷,
S. Shacham¹⁸, M. R. Mirza¹⁹ & V. Makker²⁰



ENGOT-EN5/GOG-3055/SIENDO

PRIMARY ENDPOINT: PFS IN ITT POPULATION

(BASED ON AUDITED STRATIFICATION FACTORS)*



Median PFS (Investigator assessed)

Selinexor (n=174): 5.7 mo (95% CI 3.81-9.20)
Placebo (n=89): 3.8 mo (95% CI 3.68-7.39)

HR* = 0.705 (95% CI 0.499-0.996) One-sided P value = 0.024

* In 7 patients (2.7% of 263), the stratification factor of CR/PR was incorrect and was corrected by the Investigators prior to database lock and unblinding.

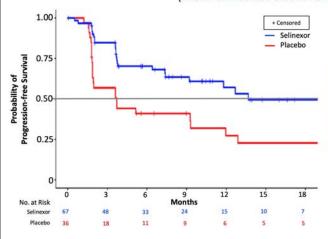
The statistical analysis was validated by the independent ENGOT statistician and approved by the IDMC.

HR for ITT without correction of the stratification factors was 0.76 (95% CI: 0.543, 1.076).

ENGOT-EN5/GOG-3055/SIENDO

SUBGROUP PFS: PATIENTS WITH WILD TYPE P53 EC

(BASED ON AUDITED STRATIFICATION FACTORS)



Median PFS

Selinexor (n=67): 13.7 mo (95% CI 9.20-NR) Placebo (n=36): 3.7 mo (95% CI 1.87-12.88)

HR = 0.375 (95% CI 0.210-0.670) One-sided P value = 0.0003

Selinexor: 30% reduction in risk of progression and/or death

p53 wild-type subgroup: 62% risk of progression and/or death

Endometrioid histology: median PFS 9.2m v 3.2m [HR 0.57; 95% CI, 0.35-0.94; p=0.014]

AEs manageable with supportive care and dose reductions



Randomized Phase III Study of Maintenance Selinexor vs Placebo in Endometrial Cancer (ENGOT-EN5/GOG-3055/SIENDO): Impact of Subgroup Analysis and Molecular Classification

Vicky Makker¹, J Alejandro Pérez-Fidalgo², Alice Bergamini³, Daniel Spitz⁴, Toon Van Gorp⁵, Jalid Sehouli⁶, Jaroslav Klat⁷, Tamar Perri⁸, Amit Oza⁹, Estrid Høgdall¹⁰, Jason Konner¹¹, Eva M Guerra-Alia¹², Francesco Raspagliesi¹³, Stéphanie Henry¹⁴, Bradley J. Monk¹⁵, Jerónimo Martínez¹⁶, Brian Slomovitz¹⁷, Sharon Shacham¹⁸, Mansoor Raza Mirza¹⁹, Ignace Vergote⁵

¹Memorial Sloan Kettering Cancer Center, ²Hospital Clínico Universitario de Valencia, Valencia and GEICO, ³MITO and Department of Obstetrics and Gynecology, San Raffaele Scientific Institute, ⁴Florida Cancer Specialists, Sarah Cannon Research Institute, ⁵BGOG and Leuven Cancer Institute, University Hospitals Leuven, Leuven, Belgium, ⁶NOGGO and Department of Gynecology, European Competence Center for Ovarian Cancer, Charité Comprehensive Cancer Center, Charité—Berlin University of Medicine, ⁷CEEGOG and University Hospital Ostrava, ⁸ISGO and Sheba Medical Center, ⁹Princess Margaret Cancer Centre, University Health Network, ¹⁰Department of Pathology, Herlev Hospital, University of Copenhagen, Copenhagen, Denmark, ¹¹Memorial Sloan Kettering Monmouth, ¹²Hospital Universitario Ramón y Cajal, Madrid and GEICO, ¹³MITO and Fondazione IRCCS Istituto Nazionale dei Tumori– Milano, S.C. Ginecologia Oncologica, ¹⁴BGOG and Université Catholique de Louvain, CHU UCL Namur Site Ste Elisabeth, Service d'onco-hématologie (SORMN), Place Louise Godin 15 B-5000 Namur, ¹⁵GOG Foundation, University of Arizona, Creighton University, Phoenix, AZ USA, ¹⁶Hospital Virgen de la Arrixaca, Murcia and GEICO, ¹⁷Gynecologic Oncology, Mount Sinai Medical Center; Obstetrics and Gynecology, Florida International University, ¹⁸Karyopharm Therapeutics ¹⁹Rigshospitalet, Copenhagen University Hospital, Denmark

Preliminary Exploratory Analysis of Mutually-Exclusive TCGA Subgroups

	Selinexor	Placebo	<i>One-sided</i> <i>p-value</i> (nominal)	HR (95% CI)
	Progression-free surviva (months)	I — median,		
POLE mutated (selinexor n=2, placebo n=4)				
Stratification-adjusted, audited	3.8	1.9	0.404	0.71 (0.04-11.79)
Stratification-adjusted, unaudited			0.404	0.71 (0.04-11.79)
MSI-H (selinexor n=18, placebo n=8)				
Stratification-adjusted, audited	6.4	NR	0.685	1.41 (0.35-5.67)
Stratification-adjusted, unaudited			0.685	1.41 (0.35-5.67)
Copy number low (selinexor n=37, placebo n=20)				
Stratification-adjusted, audited	NR	3.7	<0.0001	0.16 (0.06-0.44)
Stratification-adjusted, unaudited			0.0004	0.22 (0.09-0.58)
Copy number high (selinexor n=50, placebo n=33)				
Stratification-adjusted, audited	3.7	5.6	0.820	1.31 (0.74-2.31)
Stratification-adjusted, unaudited			0.860	1.37 (0.77-2.41)

Potential benefit may
be observed for
Selinexor over
placebo in patients
with p53 wild-type
including MSS and
Copy Number Low EC

Note: No benefit among patients with p53 mutant/aberrant tumors

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MODULE 3: Cervical Cancer

- Immunotherapy for metastatic disease
- Antibody-drug conjugate: Tisotumab vedotin



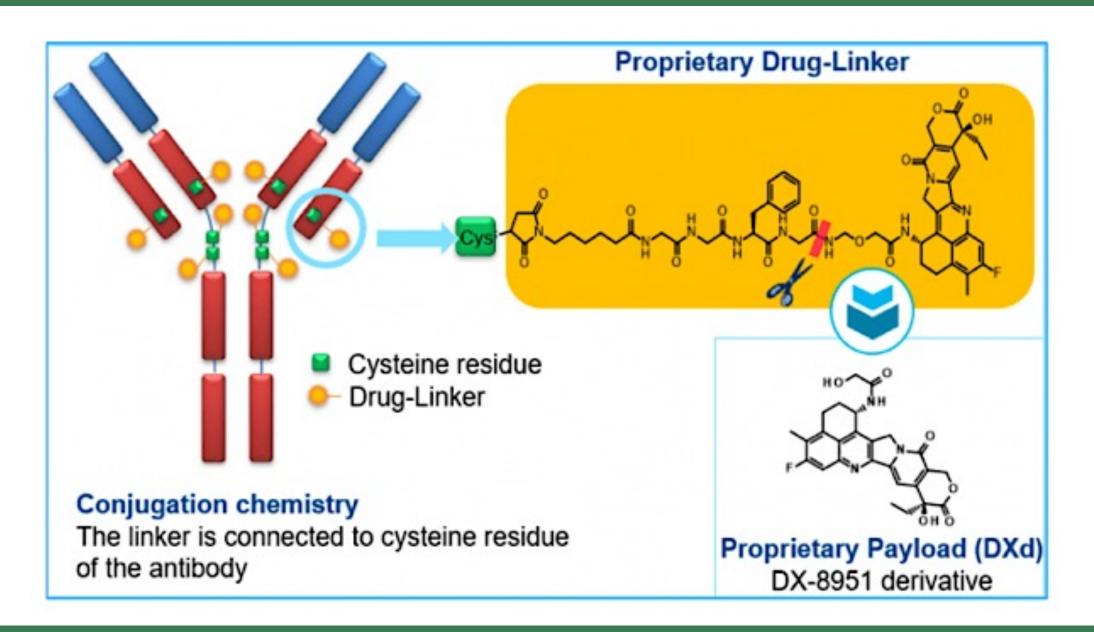
ORAL PRESENTATIONS - PROFFERED ABSTRACTS | JUNE 15 2022

Abstract CT005: Safety and efficacy of olaparib combined to metronomic cyclophosphamide and metformin in recurrent advanced/metastatic endometrial cancer patients: ENDOLA trial [FREE]

Benoit You; Alexandra Leary; Manuel Rodrigues; Philippe Follana; Cyril Abdeddaim; Florence Joly; Sylvie Bin; Laurent Villeneuve; Marine Alexandre; Florent Boutitie; Delphine Maucort-Boulch; Verane Schwiertz; Gilles Freyer

Trastuzumab deruxtecan (DS-8201a), a HER2-targeting antibody–drug conjugate with topoisomerase I inhibitor payload, shows antitumor activity in uterine and ovarian carcinosarcoma with HER2/ neu expression

Dennis Mauricio ^a, Stefania Bellone ^a, Levent Mutlu ^a, Blair McNamara ^a, Diego D. Manavella ^a, Cem Demirkiran ^a, Miguel Skyler Z. Verzosa ^a, Natalia Buza ^b, Pei Hui ^b, Tobias Max Philipp Hartwich ^a, Justin Harold ^a, Yang Yang-Hartwich ^a, Margherita Zipponi ^a, Gary Altwerger ^a, Elena Ratner ^a, Gloria S. Huang ^a, Mitchell Clark ^a, Vaagn Andikyan ^a, Masoud Azodi ^a, Peter E. Schwartz ^a, Alessandro D. Santin ^{a,*}



Agenda

INTRODUCTION: Gynecologic Oncology in the Real World

MODULE 1: Ovarian Cancer

- PARP inhibitors as primary maintenance
- PARP inhibitors for recurrent and metastatic disease
- Antibody-drug conjugates: Mirvetuximab soravtansine; upifitamab rilsodotin

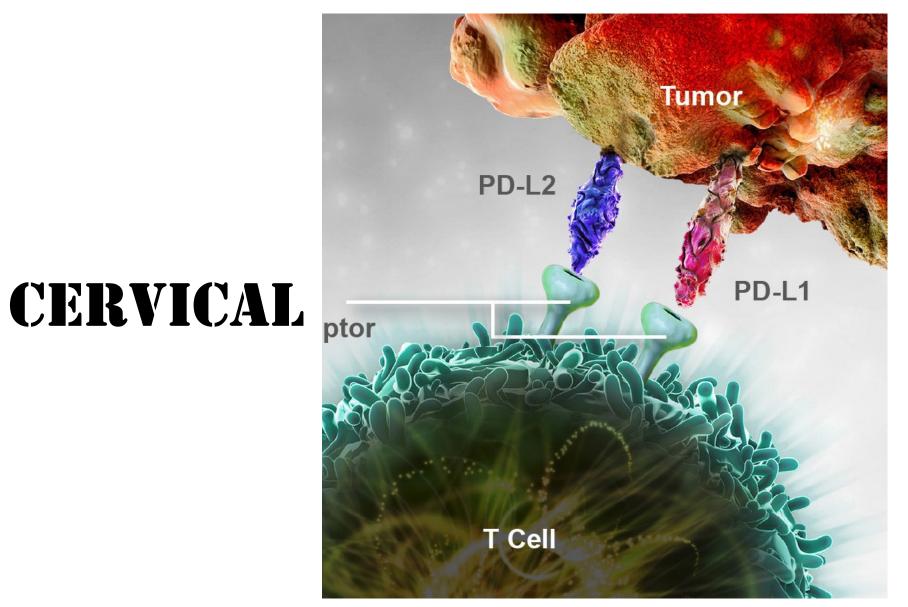
MODULE 2: Endometrial Cancer

- Immunotherapy for metastatic disease
- Selinexor as maintenance therapy
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CANCER

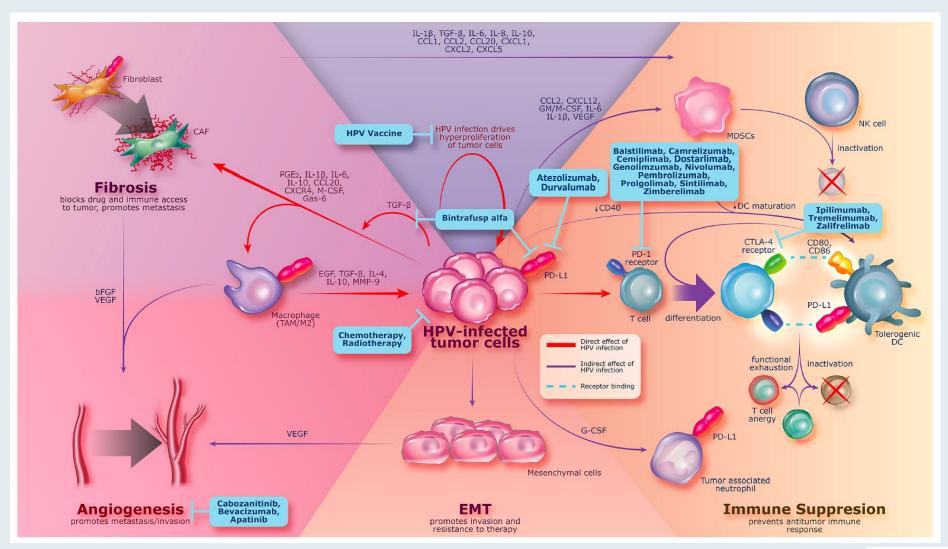
The Changing Landscape of Systemic Treatment for Cervical Cancer: Rationale for Inhibition of the TGF-β and PD-L1 Pathways

Michael J. Birrer^{1*}, Keiichi Fujiwara², Ana Oaknin³, Leslie Randall⁴, Laureen S. Ojalvo⁵, Christian Valencia⁵ and Isabelle Ray-Coquard⁶

Front Oncol 2022 February 23;12:814169.



Pathogenesis of Persistent HPV Infection Leading to Cervical Cancer





Pembrolizumab + Chemotherapy ± Bevacizumab in Patients with Persistent, Recurrent, or Metastatic Cervical Cancer: Subgroup Analysis of KEYNOTE-826

Krishnansu S. Tewari¹, Nicoletta Colombo², Bradley J. Monk³, Coraline Dubot⁴, M. Valeria Cáceres⁵, Kosei Hasegawa⁶, Ronnie Shapira-Frommer⁷, Pamela Salman⁸, Eduardo Yañez⁹, Mahmut Gümüş¹⁰, Mivael Olivera Hurtado de Mendoza¹¹, Vanessa Samouëlian¹², Vincent Castonguay¹³, Alexander Arkhipov¹⁴, Cumhur Tekin¹⁵, Kan Li¹⁵, Sarper Toker¹⁵, Stephen M. Keefe¹⁵, Domenica Lorusso¹⁶

- The benefit of pembrolizumab was generally consistent across a broad selection of key patient subgroups, including those defined by histology, platinum use, bevacizumab use, and prior CRT exposure only
- "Real World Experience": These results provide further support for pembrolizumab plus chemotherapy, with or without bevacizumab, as a new standard of care for women with persistent, recurrent, or metastatic cervical cancer

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Tisotumab vedotin + pembrolizumab in first-line recurrent or metastatic cervical cancer: Interim results of ENGOT Cx8/GOG 3024/innovaTV 205

Domenica Lorusso¹, <u>Ignace Vergote²</u>, Roisin E. O'Cearbhaill³, Anne M. Westermann⁴, Susana Banerjee⁵, Els Van Nieuwenhuysen², David A. Iglesias⁶, Dearbhaile Collins⁷, David Cibula⁸, Kristine Madsen⁹, Krishnansu S. Tewari¹⁰, Sandro Pignata¹¹, Jean-Francois Baurain¹², Ingrid A. Boere¹³, Hannelore Denys¹⁴, Camilla Mondrup Andreassen¹⁵, Ibrahima Soumaoro¹⁶, Shweta Jain¹⁷, Christine Gennigens¹⁸, and Bradley J. Monk¹⁹

1L TV + Pembro: 41% ORR (16% CR); median DOR not reached at 19m median f/u

2L/3L TV + Pembro: 38% ORR

1L TV + Carbo: 55% ORR



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Mitigation and management strategies for ocular events associated with tisotumab vedotin

Stella K. Kim^{a,*}, Paul Ursell^b, Robert L. Coleman^c, Bradley J. Monk^d, Ignace Vergote^e

Table 2CTCAE definitions of key ocular AEs associated with tisotumab vedotin [25].

CTCAE term	Definition	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Conjunctivitis	A disorder characterized by inflammation, swelling and redness to the conjunctiva of the eye	Asymptomatic or mild symptoms; intervention not indicated	Symptomatic; moderate decrease in visual acuity (best corrected visual acuity 20/40 and better or 3 lines or less decreased vision from known baseline)	Symptomatic with marked decrease in visual acuity (best correct visual acuity worse than 20/40 or more than 3 lines of decreased vision from known baseline, up to 20/200); limited self-care ADL	Best corrected visual acuity of 20/200 or worse in the affected eye	-
Dry eye	A disorder characterized by dryness of the cornea and conjunctiva	Asymptomatic; clinical or diagnostic observations only; symptoms relieved by lubricants	Symptomatic; moderate decreased in visual acuity (best corrected visual acuity 20/40 and better or 3 lines or less decreased vision from known baseline)	Symptomatic with marked decreased in visual acuity (best corrected visual acuity worse than 20/40 or more than 3 lines of decreased vision from known baseline; up to 20/200); limiting self-care ADL	-	-
Keratitis	A disorder characterized by inflammation to the cornea of the eye	Asymptomatic; clinical or diagnostic observations only; intervention not indicated	Symptomatic; moderate decrease in visual acuity (best corrected visual acuity 20/40 and better or 3 lines or less decreased vision from known baseline)	Symptomatic with marked decrease in visual acuity (best corrected visual acuity worse than 20/40 or more than 3 lines of decreased vision from known baseline, up to 20/200); corneal ulcer; limiting self-care ADL	Perforation; best corrected visual acuity of 20/200 or worse in the affected eye	-
Eye disorders, other	-	Asymptomatic or mild symptoms; clinical or diagnostic observations only; intervention not indicated	Moderate; minimal, local or noninvasive intervention indicated; limiting instrumental ADL; best corrected visual acuity 20/40 and better or 3 lines or less decreased vision from known baseline	Severe or medically significant but not immediately sight-threatening; limiting self care ADL; decrease in visual acuity (best corrected visual acuity worse than 20/40 or more than 3 lines of decreased vision from known baseline, up to 20/200	Sight-threatening consequences; urgent intervention indicated; best corrected visual acuity of 20/200 or worse in the affected eye	-

Oncology Today with Dr Neil Love — Thyroid Cancer and Neuroendocrine Tumors

A CME/MOC-Accredited Virtual Event

Wednesday, January 25, 2023 5:00 PM - 6:00 PM

Faculty
Jonathan Strosberg, MD
Lori J Wirth, MD

Moderator Neil Love, MD



Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.

