

# **Understanding the Current Paradigm and New Approaches in the Care of Patients with Cancer**

*A Complimentary NCPD Hybrid Symposium Series Held During the 50<sup>th</sup> Annual ONS Congress*

## **Ovarian Cancer**

**Friday, April 11, 2025**

**12:15 PM – 1:45 PM**

### **Faculty**

**Courtney Arn, CNP**

**Jennifer Filipi, MSN, NP**

**David M O'Malley, MD**

**Shannon N Westin, MD, MPH, FASCO, FACOG**

### **Moderator**

**Neil Love, MD**

# Faculty



**Courtney Arn, CNP**

The James Cancer Hospital  
and Solove Research Institute  
The Ohio State University  
Columbus, Ohio



**David M O'Malley, MD**

Director and Professor  
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and Gynecology  
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**Shannon N Westin, MD, MPH, FASCO, FACOG**

Professor  
Medical Director, Gynecologic Oncology Center  
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Reproductive Medicine  
The University of Texas  
MD Anderson Cancer Center  
Houston, Texas

# Ms Arn — Disclosures

<b>Speakers Bureaus</b>	AbbVie Inc, AstraZeneca Pharmaceuticals LP, Eisai Inc, Genmab US Inc, ImmunoGen Inc, Merck, Pfizer Inc
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# Ms Filipi — Disclosures

No relevant conflicts of interest to disclose.



# Dr O'Malley — Disclosures

<b>Advisory Committees and Consulting Agreements</b>	AbbVie Inc, AstraZeneca Pharmaceuticals LP, Corcept Therapeutics, Duality Biologics, Genmab US Inc, GSK, Merck, MSD, Regeneron Pharmaceuticals Inc, Seagen Inc, Sumitomo Dainippon Pharma Oncology Inc, Sutro Biopharma, Verastem Inc
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<b>Nonrelevant Financial Relationships</b>	Amarex Clinical Research, GOG Foundation, Ludwig Institute for Cancer Research Ltd, National Cancer Institute, NRG Oncology, RTOG Foundation, SWOG

## Dr Westin — Disclosures

<b>Consulting Agreements</b>	AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Caris Life Sciences, Clovis Oncology, Corcept Therapeutics, Daiichi Sankyo Inc, Eisai Inc, EQRx, Genentech, a member of the Roche Group, Gilead Sciences Inc, GSK, Immunocore, ImmunoGen Inc, Incyte Corporation, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Merck, Mereo BioPharma, Mersana Therapeutics Inc, NGM Biopharmaceuticals, Nuvectis Pharma Inc, Pfizer Inc, pharmaand GmbH, Seagen Inc, Verastem Inc, Vincerx Pharma, Zentalis Pharmaceuticals, ZielBio
<b>Contracted Research (to Institution)</b>	AstraZeneca Pharmaceuticals LP, Avenge Bio, Bayer HealthCare Pharmaceuticals, Bio-Path Holdings Inc, Clovis Oncology, Daiichi Sankyo Inc, Genentech, a member of the Roche Group, GSK, Jazz Pharmaceuticals Inc, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Mereo BioPharma, Novartis, Nuvectis Pharma Inc, Pfizer Inc, pharmaand GmbH, Zentalis Pharmaceuticals

## Commercial Support

This activity is supported by educational grants from AstraZeneca Pharmaceuticals LP, GSK, and Merck.

## Research To Practice NCPD Planning Committee Members, Staff and Reviewers

Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.

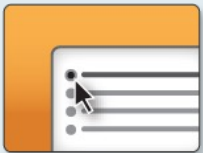
**This educational activity contains discussion of non-FDA-approved uses of agents and regimens. Please refer to official prescribing information for each product for approved indications.**

# Clinicians in the Meeting Room

**Networked iPads are available.**



**Review Program Slides:** Tap the Program Slides button to review speaker presentations and other program content.



**Answer Survey Questions:** Complete the pre- and postmeeting surveys. Survey questions will be discussed throughout the meeting.



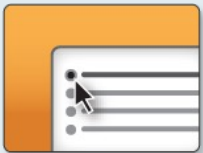
**Ask a Question:** Tap Ask a Question to submit a challenging case or question for discussion. We will aim to address as many questions as possible during the program.

*For assistance, please raise your hand. Devices will be collected at the conclusion of the activity.*

# Clinicians Attending via Zoom



**Review Program Slides:** A link to the program slides will be posted in the chat room at the start of the program.



**Answer Survey Questions:** Complete the pre- and postmeeting surveys. Survey questions will be discussed throughout the meeting.



**Ask a Question:** Submit a challenging case or question for discussion using the Zoom chat room.



**Get NCPD Credit:** An NCPD credit link will be provided in the chat room at the conclusion of the program.

# Clinicians, Please Complete the Pre- and Postmeeting Surveys

The screenshot shows a Zoom meeting window. At the top, a gallery view of participants is visible. The main content area displays a presentation slide titled "Meet The Professionals" with the subtitle "Optimizing the Selection and Sequencing of Therapy for Patients with Metastatic Gastrointestinal Cancer". The slide also mentions the date "Wednesday, August 25, 5:00 PM – 6:00 PM" and lists the faculty as "Wells A Messersmith, MD" and the moderator as "Neil Love, MD". A "Quick Survey" pop-up window is overlaid on the slide, listing various treatment combinations with radio buttons for selection. To the right of the main content, a "Participants (10)" list is visible, showing names and status icons. The bottom toolbar includes icons for "Join Audio", "Start Video", "Invite", "Participants", "Share", "Chat", "Record", and a "Leave Meeting" button.

**Meet The Professionals**  
**Optimizing the Selection and Sequencing of Therapy for Patients with Metastatic Gastrointestinal Cancer**

Wednesday, August 25, 5:00 PM – 6:00 PM

Faculty  
Wells A Messersmith, MD

Moderator  
Neil Love, MD

**Quick Survey**

- ☐ Certizomib +/- dexamethasone
- ☐ Pomalidomide +/- dexamethasone
- ☐ Certizomib + pomalidomide +/- dexamethasone
- ☐ Elotuzumab + lenalidomide +/- dexamethasone
- ☐ Elotuzumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + lenalidomide +/- dexamethasone
- ☐ Daratumumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + bortezomib +/- dexamethasone
- ☐ Isaxomib + Rd
- ☐ Other

Submit

**Participants (10)**

- JS John Smith
- MM Mary Major
- RM Richard Miles
- JN John Noakes
- AS Alice Suarez
- JP Jane Perez
- RS Robert Stiles
- JF Juan Fernandez
- AK Ashok Kumar
- JS Jeremy Smith

Join Audio Start Video Invite Participants Share Chat Record Leave Meeting

The screenshot shows a Zoom meeting window. At the top, a gallery view of participants is visible. The main content area displays a presentation slide titled "Regulatory and reimbursement issues aside, which treatment would you recommend for a 65-year-old patient with clear cell renal cell carcinoma (ccRCC) if follow-up 3 years later is found to have asymptomatic disease (PS 0)?". A "Quick Poll" pop-up window is overlaid on the slide, listing various treatment options with radio buttons for selection. To the right of the main content, a "Participants (10)" list is visible, showing names and status icons. The bottom toolbar includes icons for "Join Audio", "Start Video", "Invite", "Participants", "Share", "Chat", "Record", and a "Leave Meeting" button.

**Regulatory and reimbursement issues aside, which treatment would you recommend for a 65-year-old patient with clear cell renal cell carcinoma (ccRCC) if follow-up 3 years later is found to have asymptomatic disease (PS 0)?**

1. Nivolumab/ipilimumab
2. Avelumab/axitinib
3. Pembrolizumab/axitinib
4. Pembrolizumab/lenvatinib
5. Nivolumab/cabozantinib
6. Tyrosine kinase inhibitor (TKI) monotherapy
7. Anti-PD-1/PD-L1 monotherapy
8. Other

**Quick Poll**

- ☐ Nivolumab/ipilimumab
- ☐ Avelumab/axitinib
- ☐ Pembrolizumab/axitinib
- ☐ Pembrolizumab/lenvatinib
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- ☐ Other

Submit

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Join Audio Start Video Invite Participants Share Chat Record Leave Meeting

## About the Enduring Program

- The live meeting is being video and audio recorded.
- The proceedings from today will be edited and developed into an enduring web-based program. An email will be sent to all attendees when the activity is available.
- To learn more about our education programs, visit our website, [www.ResearchToPractice.com](http://www.ResearchToPractice.com)





# ONCOLOGY NURSING UPDATE

WITH DR NEIL LOVE

## Bispecific Antibodies in Lymphoma Part 1 — An Interview with Ms Robin Klebig for Oncology Nurses



MS ROBIN KLEBIG  
MAYO CLINIC



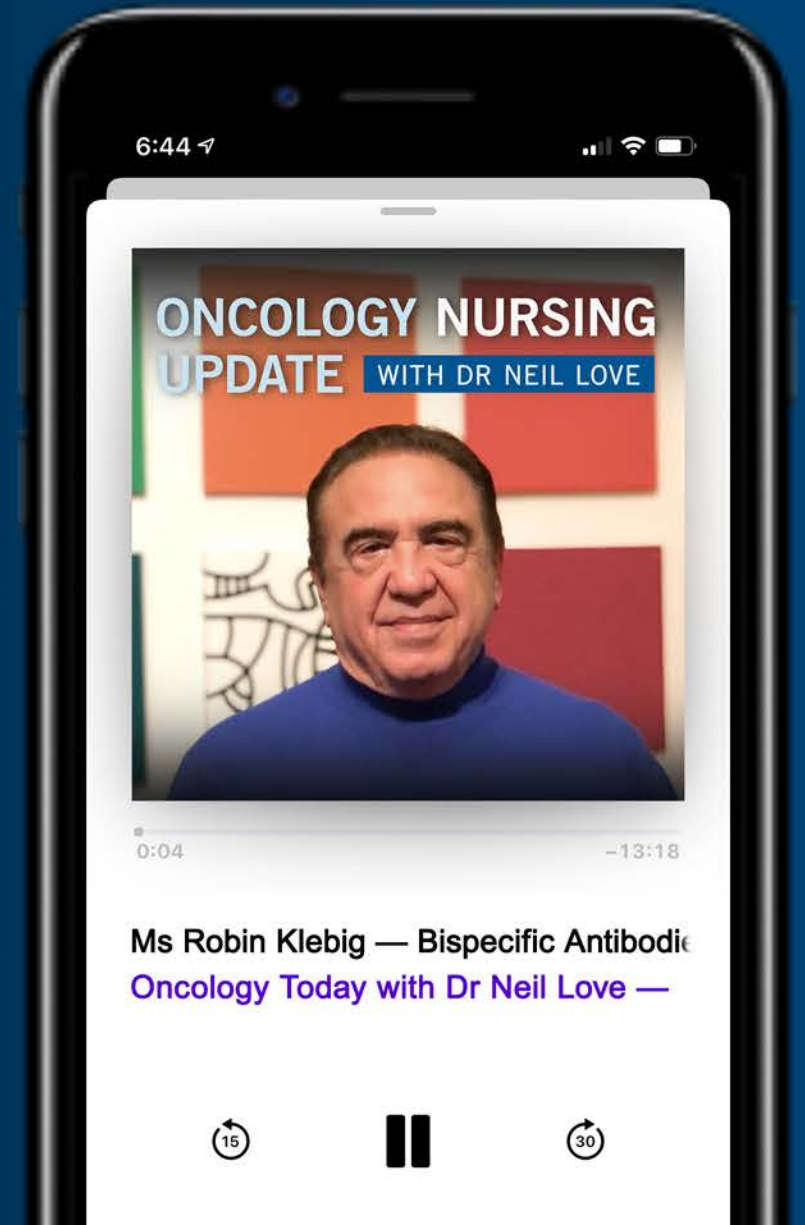
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**Spotify**



Listen on  
**Google Podcasts**



# “Understanding the Current Paradigm and New Approaches” Seventeenth Annual RTP-ONS NCPD Symposium Series

Wednesday April 9	<b>Antibody-Drug Conjugates</b> 11:15 AM – 12:45 PM MT
	<b>Hormone Receptor-Positive Breast Cancer</b> 6:00 PM – 8:00 PM MT
Thursday April 10	<b>Chronic Myeloid Leukemia</b> 6:00 AM – 7:30 AM MT
	<b>Prostate Cancer</b> 12:15 PM – 1:45 PM MT
	<b>Chronic Lymphocytic Leukemia</b> 6:00 PM – 7:30 PM MT
Friday April 11	<b>Bispecific T-Cell Engagers for Small Cell Lung Cancer</b> 6:00 AM – 7:30 AM MT
	<b>Ovarian Cancer</b> 12:15 PM – 1:45 PM MT
	<b>Pancreatic Cancer</b> 6:00 PM – 7:30 PM MT
Saturday April 12	<b>Endometrial Cancer</b> 6:00 AM – 7:30 AM MT
	<b>Gastroesophageal Cancers</b> 12:15 PM – 1:45 PM MT
	<b>Non-Hodgkin Lymphoma</b> 6:00 PM – 7:30 PM MT



# Understanding the Current Paradigm and New Approaches

## RTP Faculty at ONS 2025



# **Understanding the Current Paradigm and New Approaches in the Care of Patients with Cancer**

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### **Moderator**

**Neil Love, MD**

# Agenda

**Introduction:** Overview of Ovarian Cancer (OC) Management

**Module 1:** Genetic Testing for Newly Diagnosed Advanced OC

**Module 2:** Role of PARP Inhibitor Maintenance in Newly Diagnosed Advanced OC

**Module 3:** Other Available and Investigational Novel Strategies for OC

**Module 4:** Current and Future Role of Mirvetuximab Soravtansine in OC Treatment

# Agenda

## Introduction: Overview of Ovarian Cancer (OC) Management

**Module 1:** Genetic Testing for Newly Diagnosed Advanced OC

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## CASE STUDY

- Patient with history of IIIIC high grade serous ovarian cancer
- Initially presented with abdominal pain and was found to have bilateral pelvic masses and elevated CA-125
- Underwent debulking surgery and 6 cycles of carboplatin/paclitaxel
- Germline **BRCA2** mutation
- Counseled on parp inhibitors immediately
- Completed 2 years of maintenance Olaparib 300 mg BID in 2022
- Tolerated treatment well, currently has no evidence of disease
- Biopsychosocial Issues: Adopted, good family support, history of stroke

# Agenda

**Introduction:** Overview of Ovarian Cancer (OC) Management

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# Overview of Ovarian Cancer Management; Importance of Genetic Testing in Newly Diagnosed Advanced OC

Shannon N. Westin, MD, MPH

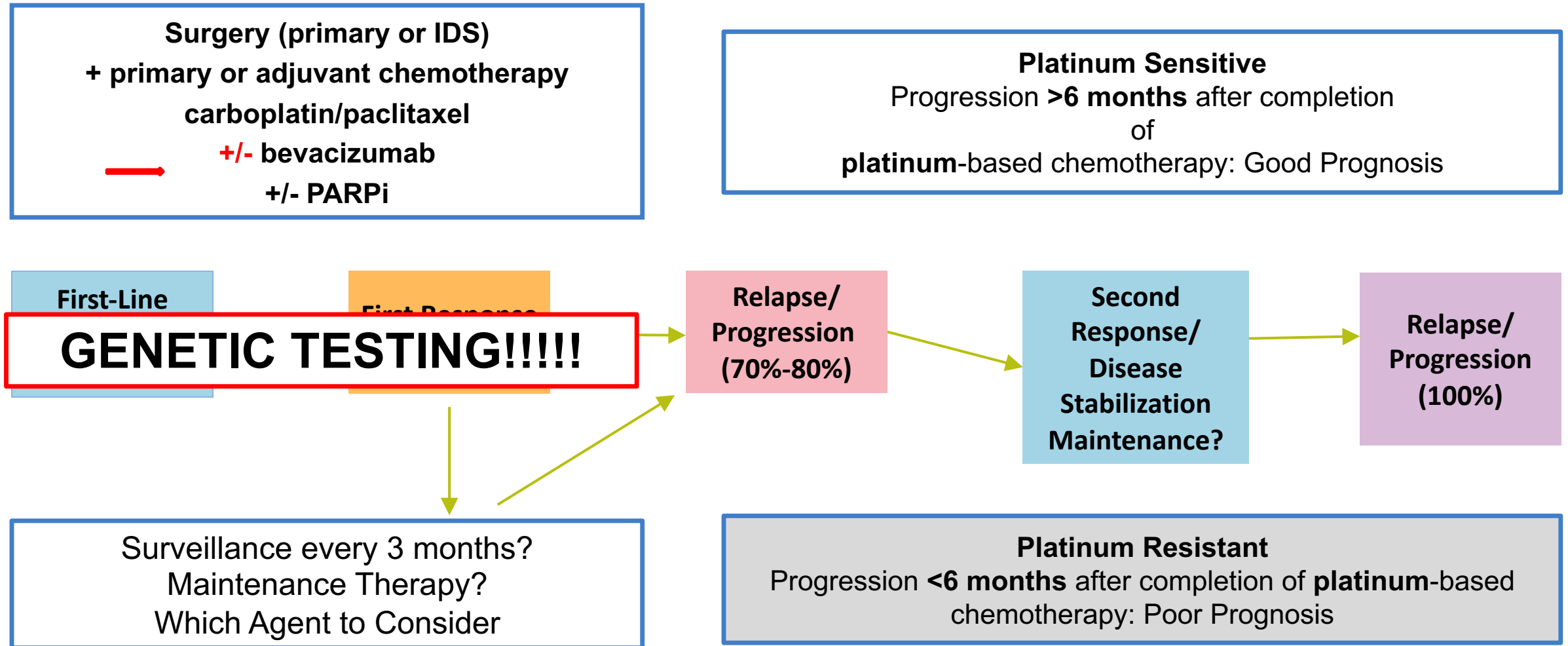
Professor

Department of Gynecologic Oncology and Reproductive Medicine

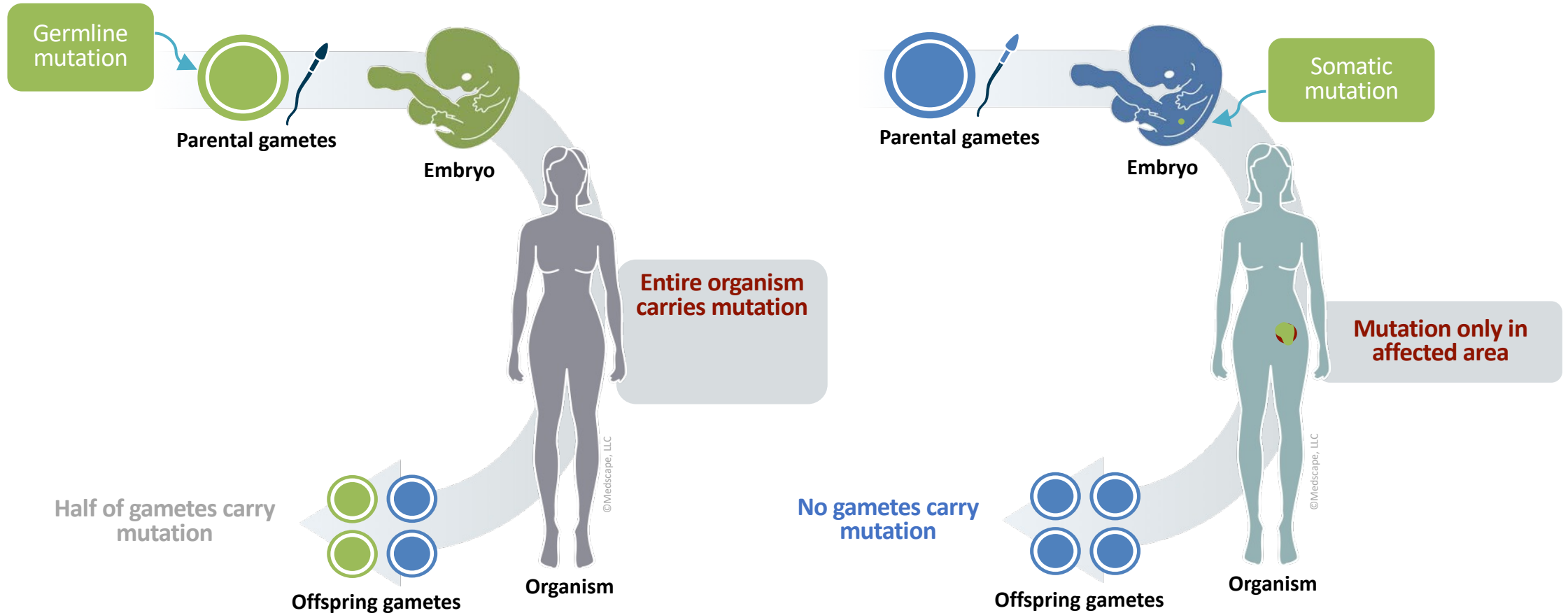


Making Cancer History®

# Typical Course of Advanced Ovarian Cancer



# Germline vs Somatic Mutations



Germline mutations are inherited and found in all cells – they are stable and do not change.  
Somatic mutations are not inherited and are found within the tumor – they can change over time.  
Both can impact cancer risk

# Which genes are associated with ovarian cancer risk and who should we test?

- *BRCA1* and *BRCA2*
- *RAD51C, RAD51D, BRIP1, PALB2*
- Lynch syndrome (*MLH1, MSH2, MSH6, PMS2, EPCAM*)

Leading oncology societies recommend testing all women with ovarian cancer

## NCCN

Genetic counseling and testing should be considered in women with a history of ovarian carcinoma, fallopian tube cancer, or primary peritoneal cancer<sup>1</sup>

## SGO

Women diagnosed with epithelial ovarian, tubal, and peritoneal cancers should receive genetic counseling and be offered genetic testing, even in the absence of family history<sup>2</sup>

## ASCO

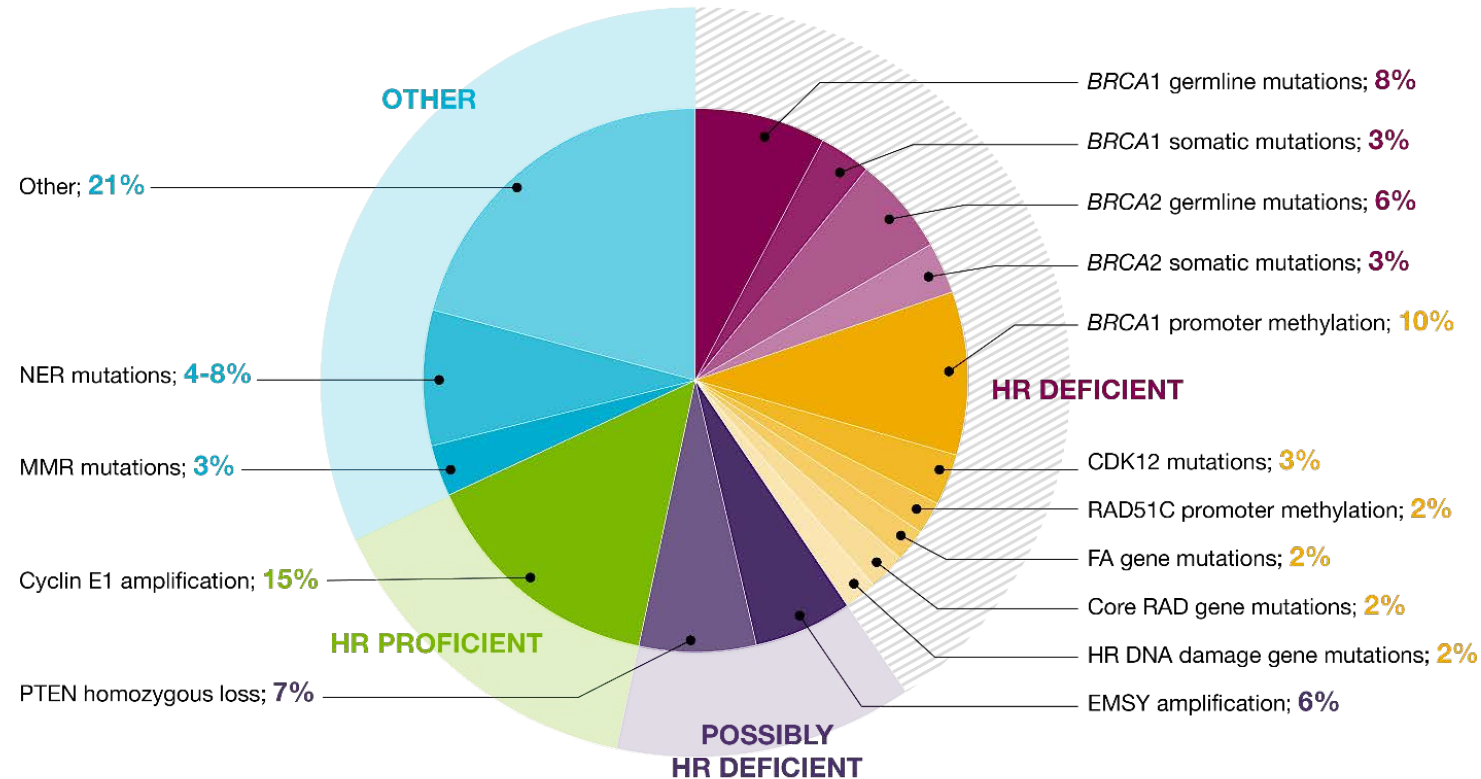
Genetic counseling and testing should be considered in women with epithelial ovarian, fallopian tube, or primary peritoneal cancer even in the absence of family history<sup>3</sup>

## ESMO

Patients with high-grade tumours should be tested for a germline *BRCA* mutation. Consideration should be given to testing tumours for a somatic *BRCA* mutation<sup>4</sup>

# Common Aberrations in Ovarian Cancer

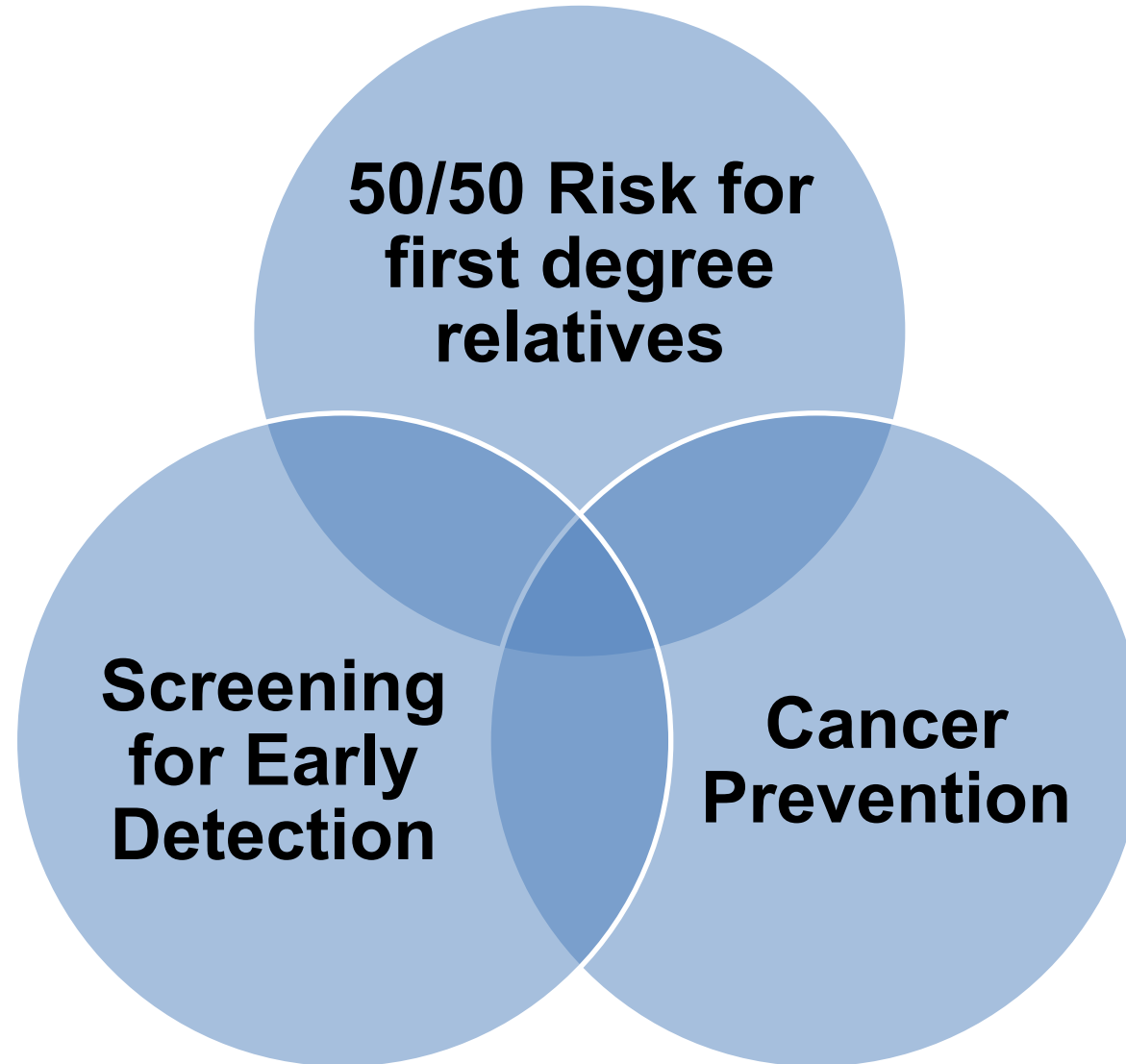
*These defects can be identified using different clinical and molecular biomarkers*



## Clinical Implications:

**Approximately 50% High Grade Epithelial Ovarian Cancers Characterized by HRD**  
**Is this targetable in recurrent epithelial ovarian cancer?**

# Importance of Cascade Testing



# Universal Genetic Testing: Missed Opportunities

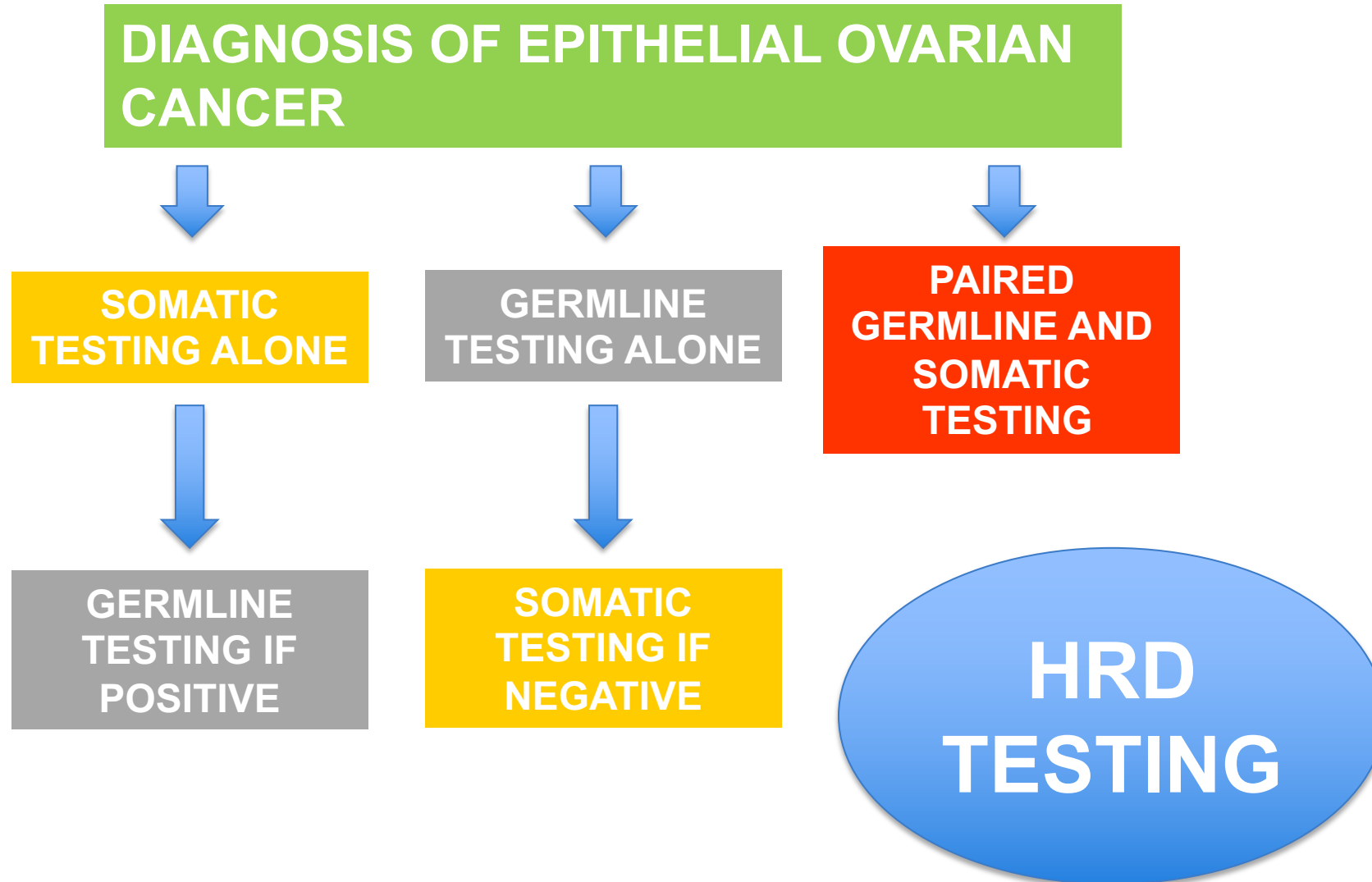
- Meta-analysis (n=35 studies)
- 39% Referral to genetic counseling
- 30% Completion of genetic testing

**Table 1**

Pooled proportions of referral to genetic counseling and completion of genetic testing by race and insurance status.

	% Referred to counseling (95% CI)	% Completed genetic testing (95% CI)
Race		
White	43% (26–62%)	40% (25–57%)
Black	24% (13–42%)	26% (17–38%)
Asian	23% (2–83%)	14% (2–51%)
Insurance status		
Private insurance	39% (26–54%)	47% (30–64%)
Medicare/Medicaid	27% (18–38%)	26% (16–40%)
Uninsured	24% (13–51%)	23% (18–28%)

# New Testing Paradigm

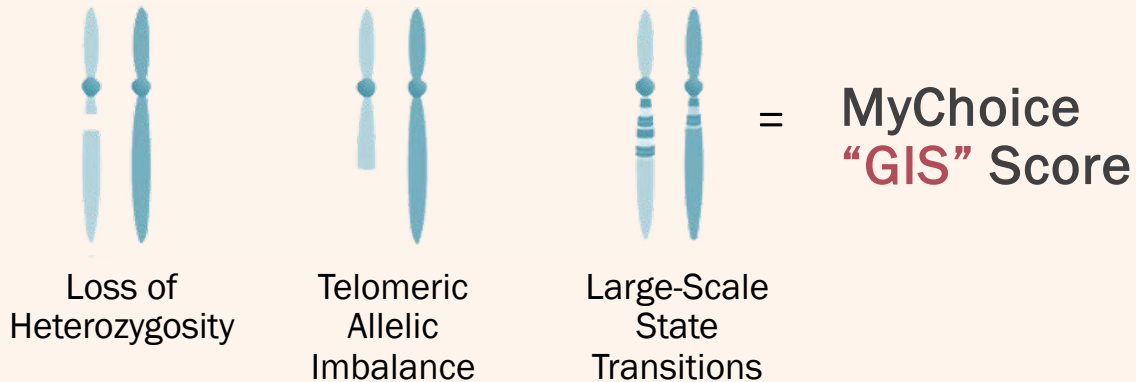




# Molecular Testing in Ovarian Cancer: Which Tests Should Be Used?

## MyChoice®

(CDx olaparib, niraparib, veliparib)



Homologous recombination status is determined by **genomic instability score**:

- HR-deficient tumors: tissue GIS  $\geq 42$  *or* a *BRCA* mutation
- HR-proficient tumors: tissue GIS  $< 42$
- HR not determined

## FoundationOne®

(CDx rucaparib)



HR-deficient tumors: LOH  $\geq 16$

## Caris®

- Genomic scar score (LOH + LST)
- HRD genes, including *BRCA1* and *BRCA2*

## Tempus®

- *BRCA* LOH and somatic genome-wide LOH
- HRD genes, including *BRCA1* and *BRCA2*

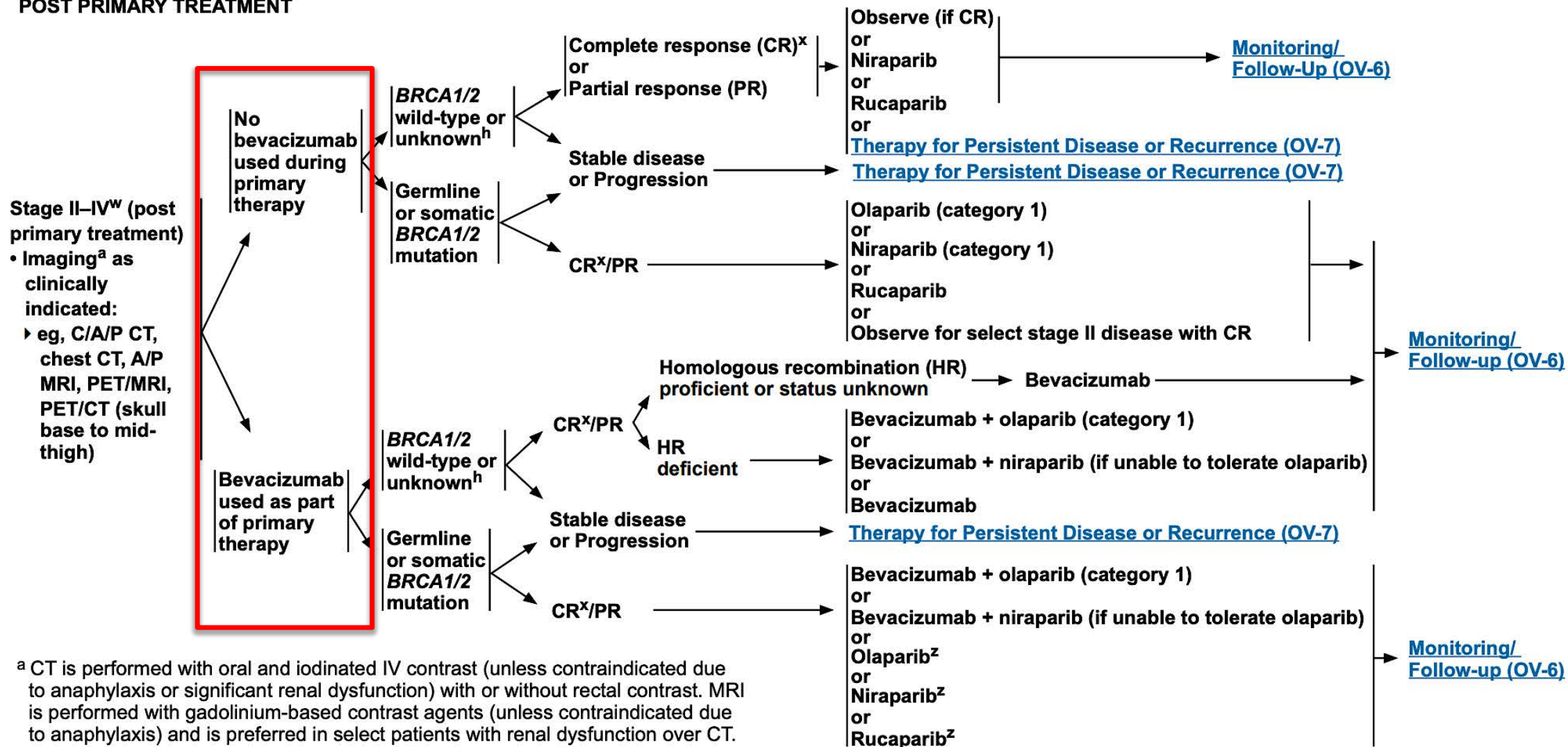
- <sup>a</sup> Tests have not been compared head-to-head. Paired with development of respective drugs.

# NCCN Guidelines Version 1.2025

## Epithelial Ovarian Cancer/Fallopian Tube Cancer/ Primary Peritoneal Cancer

### STAGE II, III, IV<sup>w</sup> POST PRIMARY TREATMENT

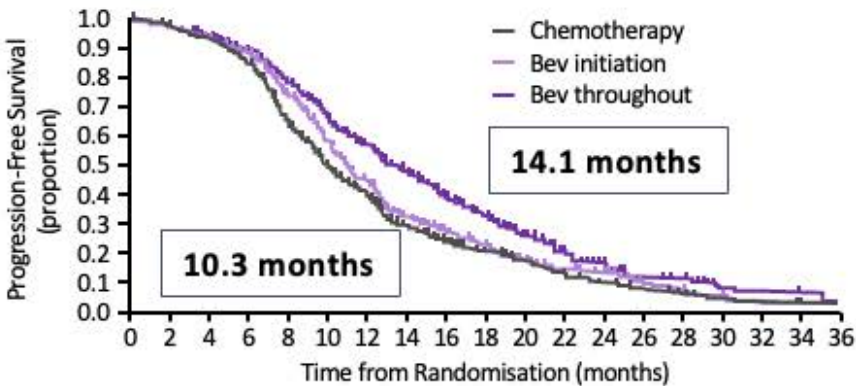
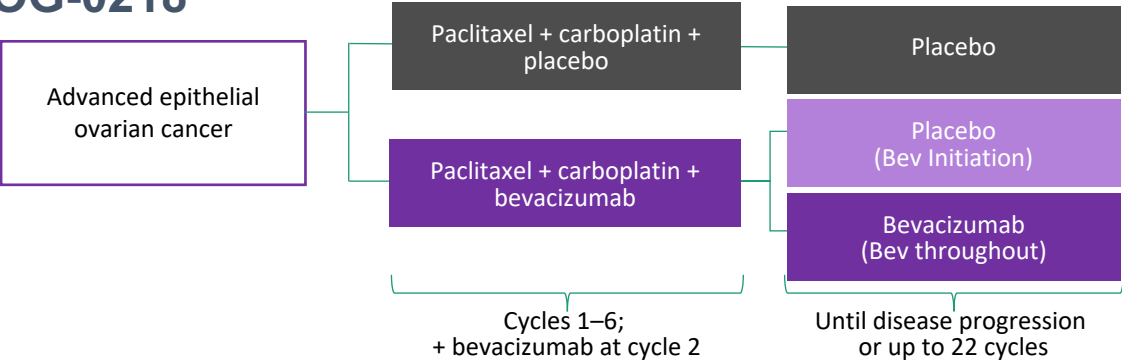
### MAINTENANCE THERAPY<sup>h,n,y</sup>



<sup>a</sup> CT is performed with oral and iodinated IV contrast (unless contraindicated due to anaphylaxis or significant renal dysfunction) with or without rectal contrast. MRI is performed with gadolinium-based contrast agents (unless contraindicated due to anaphylaxis) and is preferred in select patients with renal dysfunction over CT. Chest CT can be done with or without iodinated IV contrast.

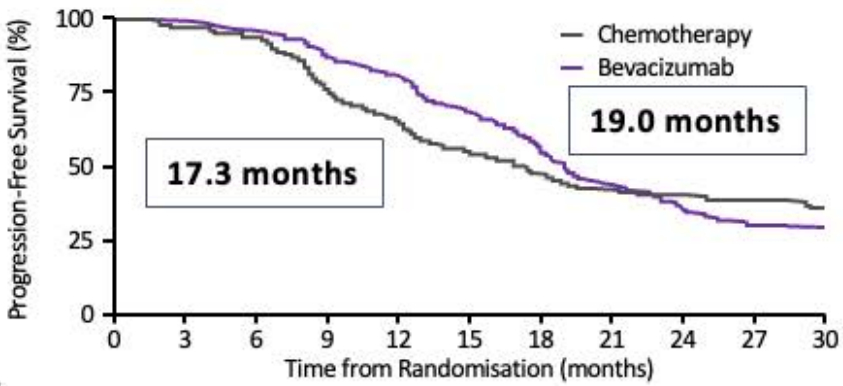
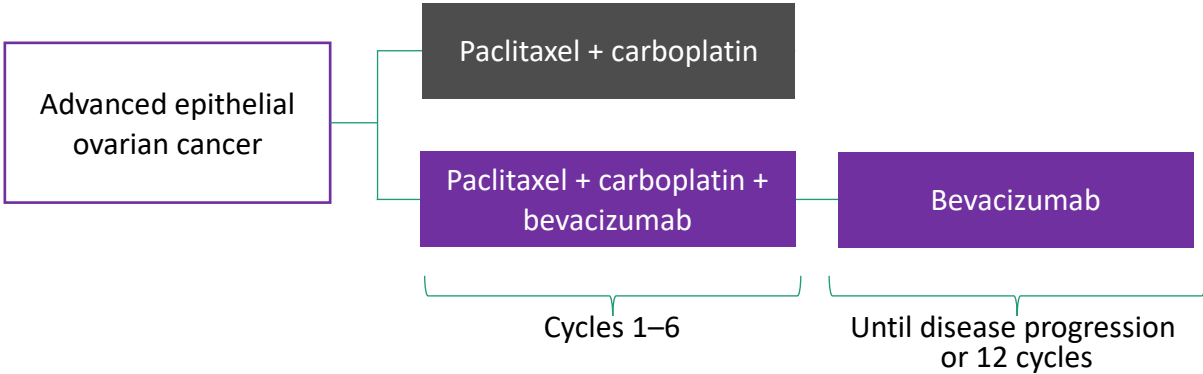
# First-Line Chemotherapy Standard of Care: Carboplatin, Paclitaxel & Bevacizumab + Maintenance

GOG-0218



No. at risk				
Chemotherapy	625	199	33	8
Bev initiation	625	219	29	6
Bev throughout	623	254	38	8

ICON7



No. at risk						
Chemotherapy	764	693	464	216	91	25
Bevacizumab	764	715	585	263	73	19

# Roundtable Discussion

# Agenda

**Introduction:** Overview of Ovarian Cancer (OC) Management

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# Clinical Scenario

**A patient with newly diagnosed advanced OC with a germline BRCA2 mutation has undergone debulking surgery and 6 cycles of carboplatin/paclitaxel and is about to start PARP inhibitor maintenance**



# ADVANCES IN OVARIAN CANCER

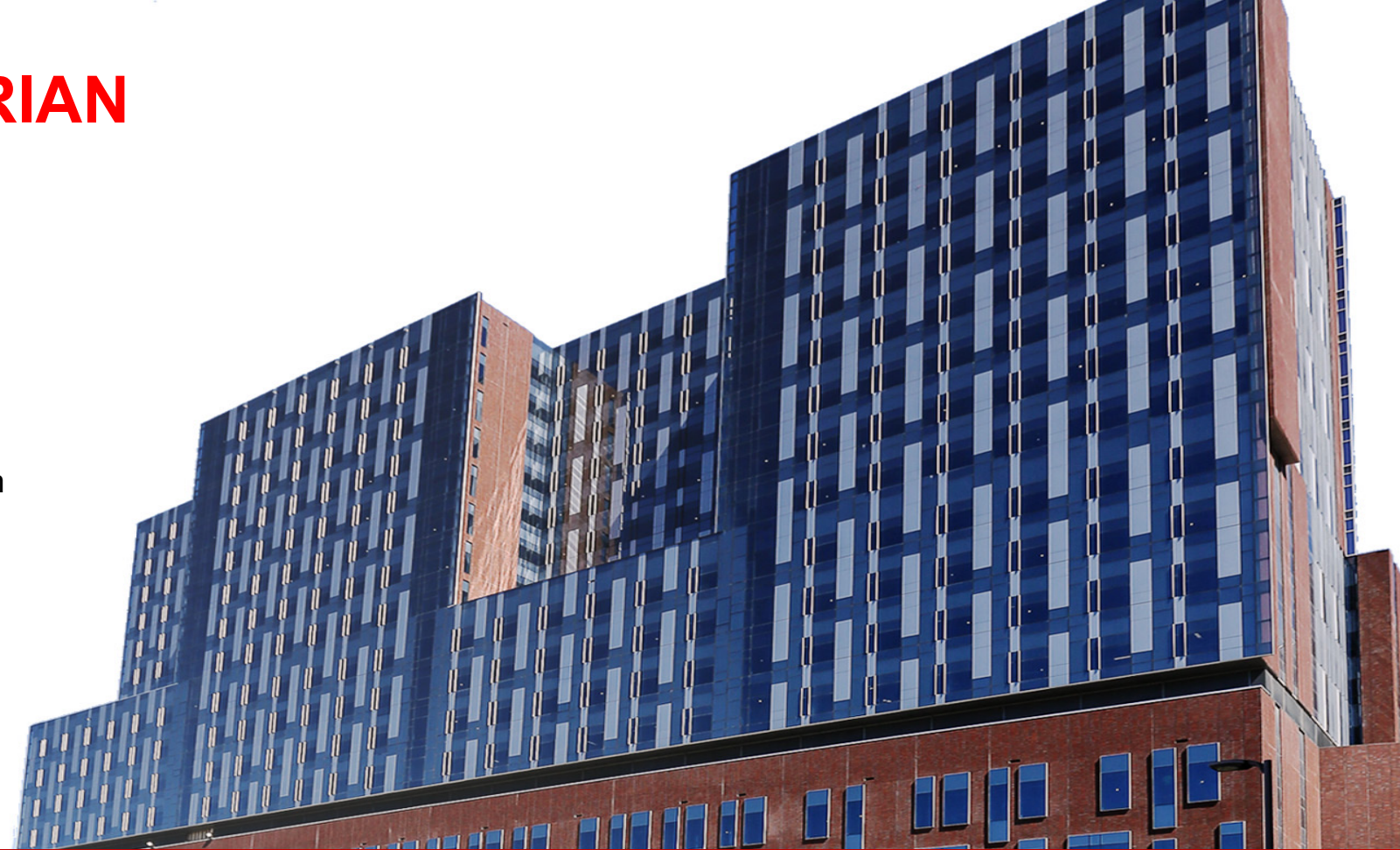
David O'Malley, MD

Professor  
Division Director, Gynecologic Oncology  
Co-Director, Gyn Oncology Phase I Program

The James



THE OHIO STATE UNIVERSITY  
WEXNER MEDICAL CENTER



Creating a cancer-free world. One person, one discovery at a time.





# PARPi in The First Line

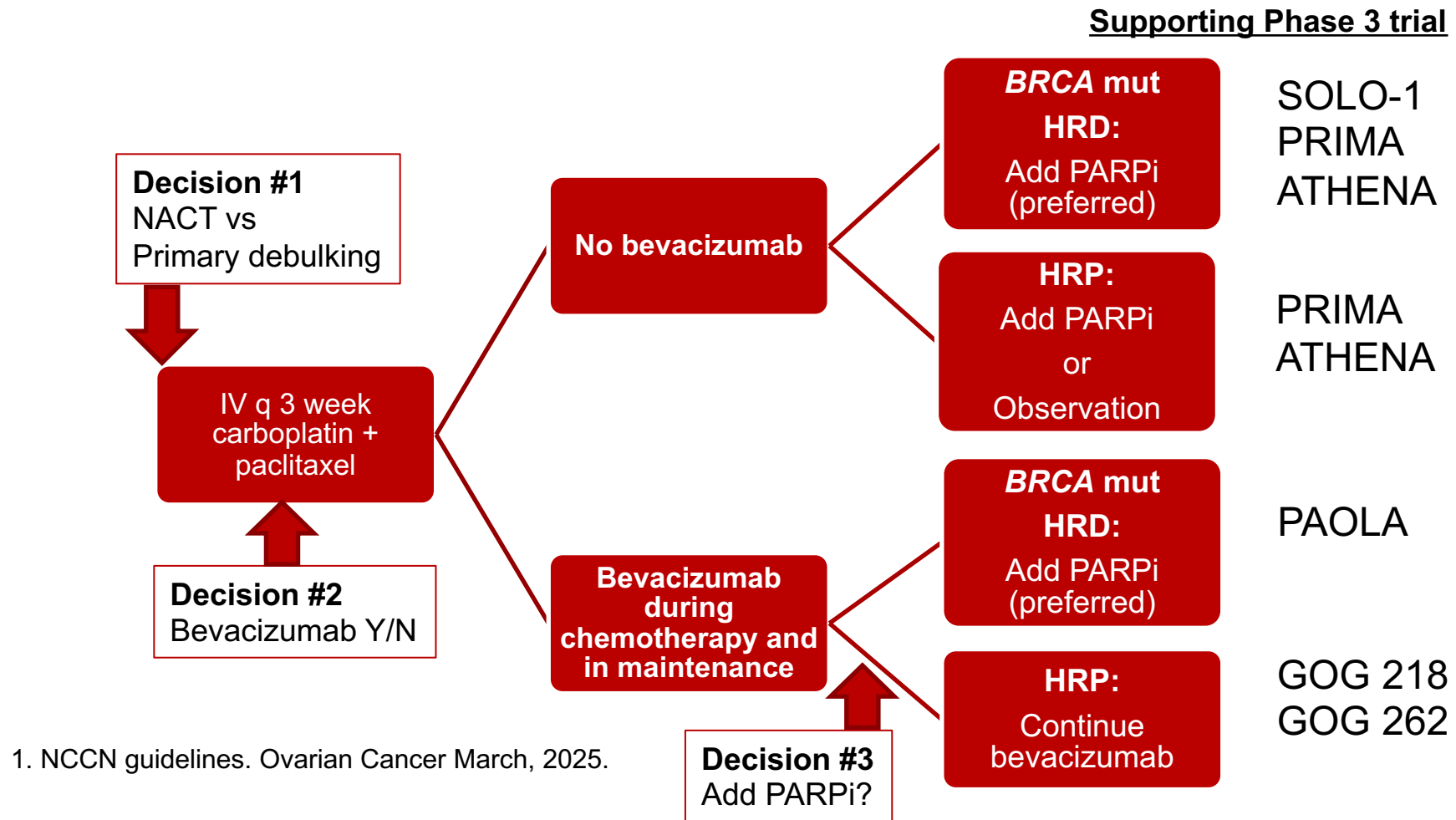
The James



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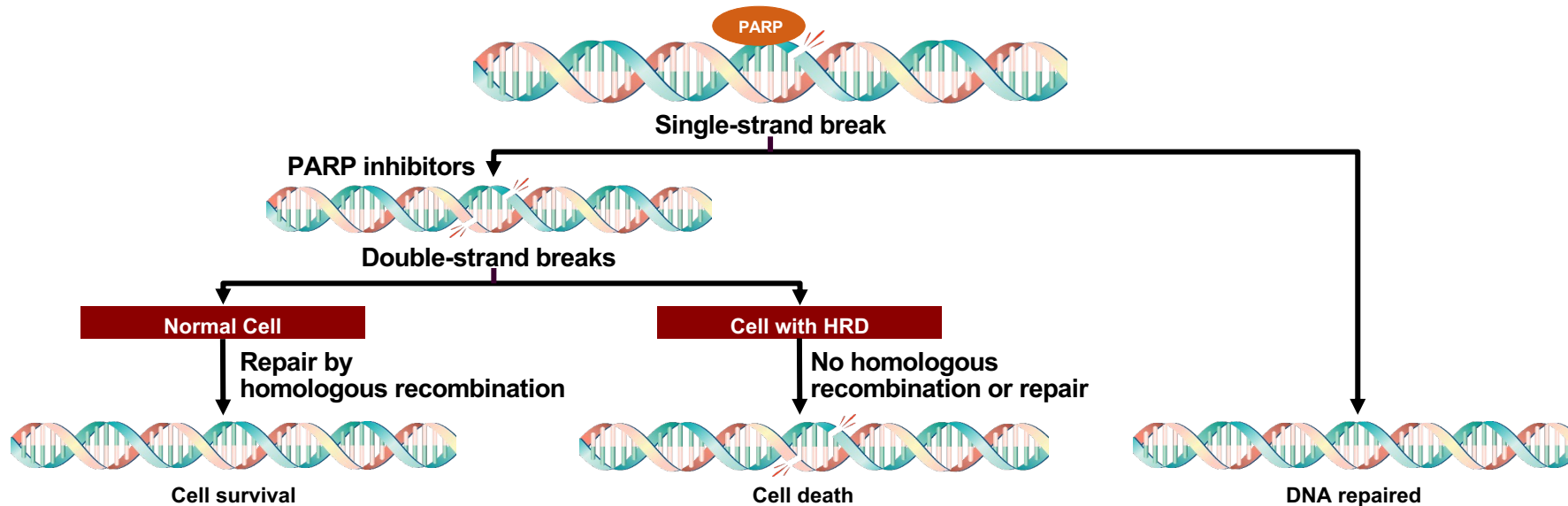
# Integrated Maintenance Treatment Paradigm for Use in 1-L Ovarian Cancer (2022)



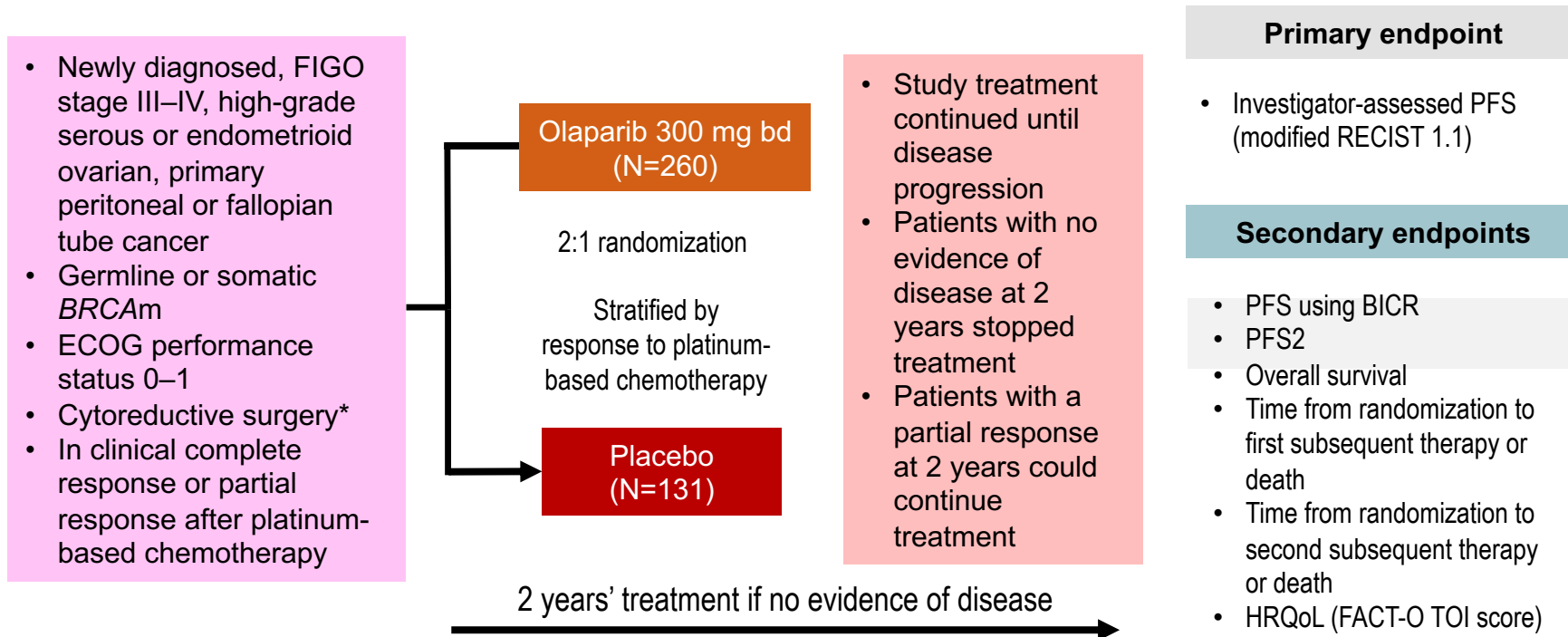
The James

# PARP Inhibitors Yield Synthetic Lethality in Patients With HRD

- PARP inhibitors prevent repair of single-strand breaks, which accumulate and generate double-strand breaks
- People with HRD cannot repair double-strand breaks, which triggers cell death

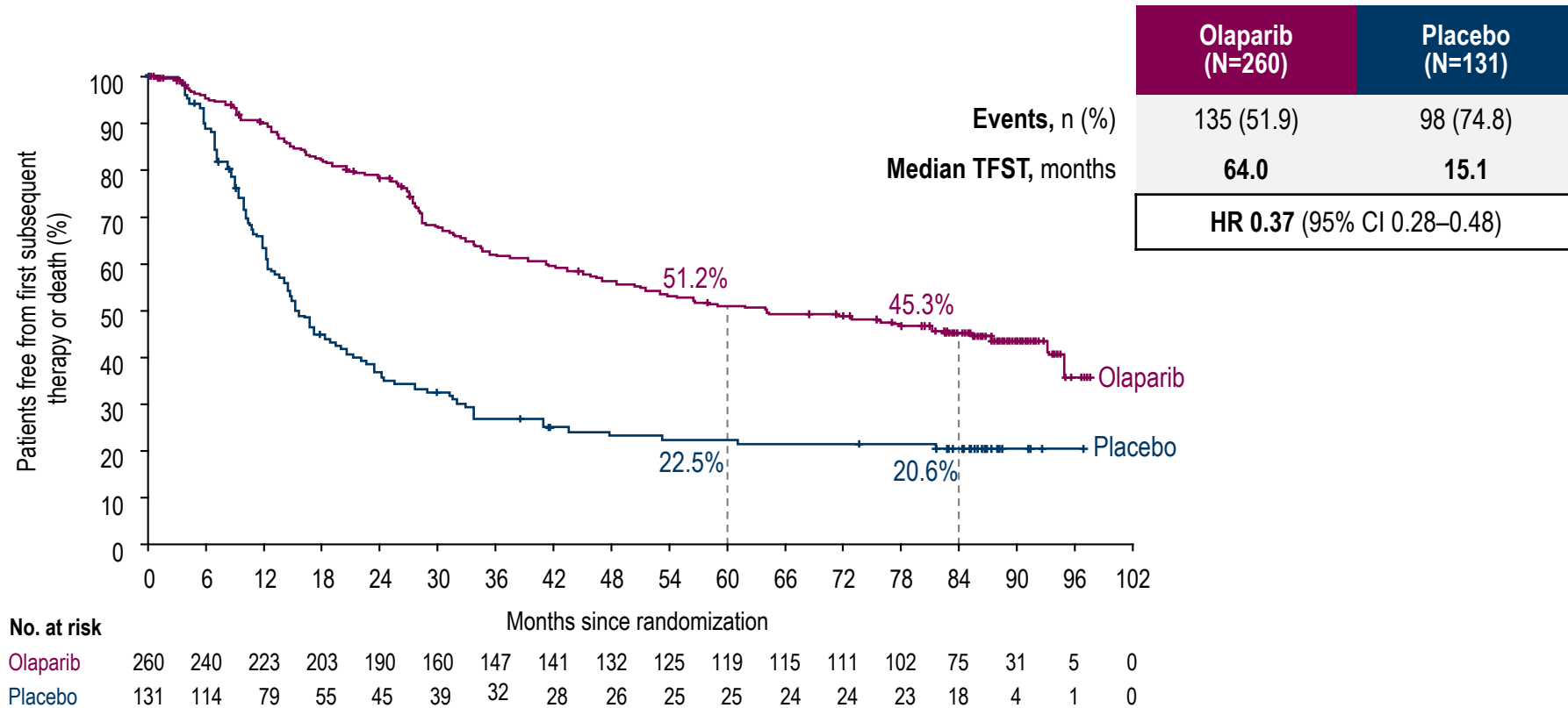


# SOLO-1: PHASE III TRIAL INVESTIGATING MAINTENANCE THERAPY WITH A PARP INHIBITOR IN NEWLY DIAGNOSED ADVANCED *BRCA*<sup>MUT</sup> OVARIAN CANCER

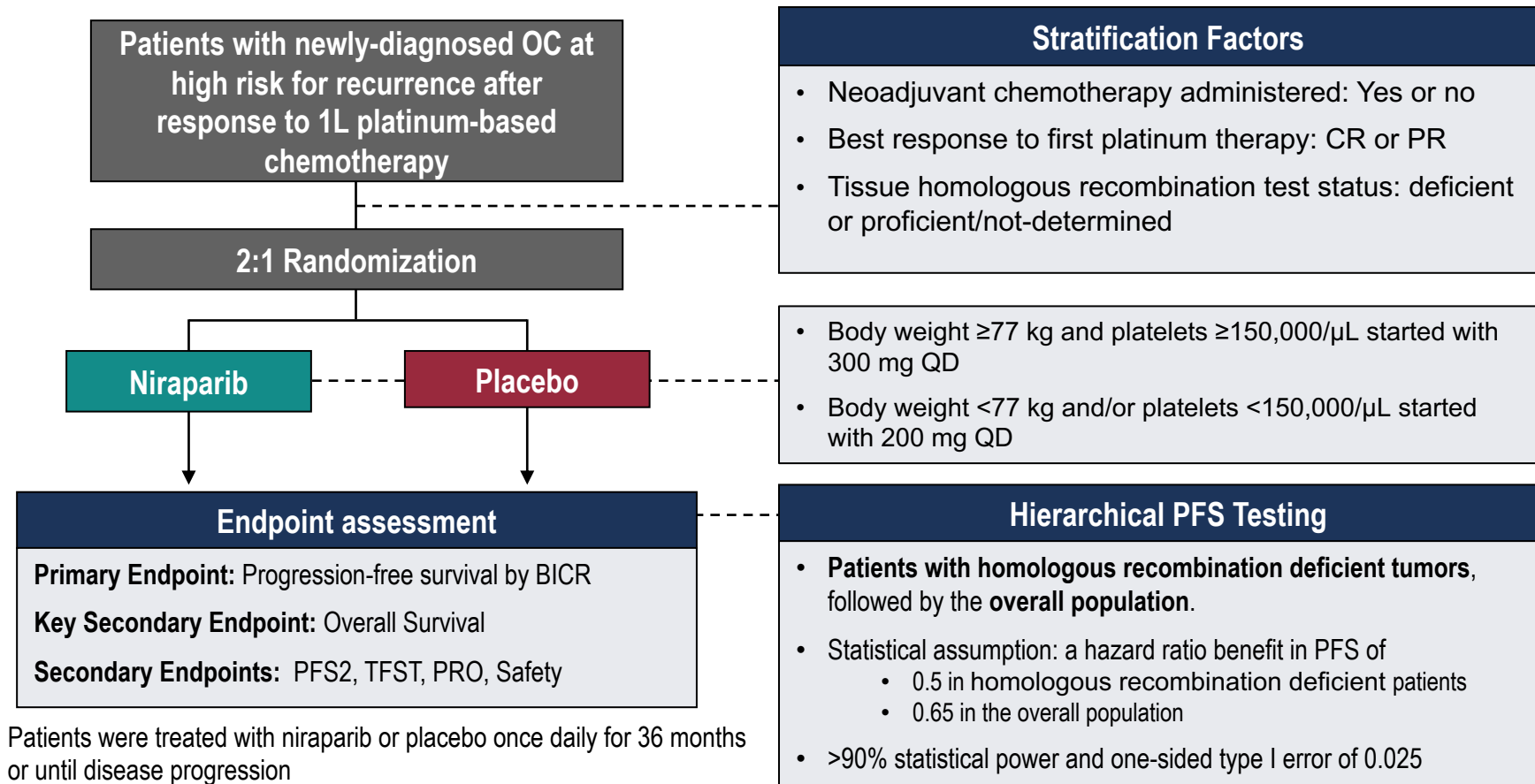


\*Upfront or interval attempt at optimal cytoreductive surgery for stage III disease and either biopsy and/or upfront or interval cytoreductive surgery for stage IV disease. BICR, blinded independent central review; ECOG, Eastern Cooperative Oncology Group; FACT-O, Functional Assessment of Cancer Therapy – Ovarian Cancer; FIGO, International Federation of Gynecology and Obstetrics; HRQoL, health-related quality of life; PFS, progression-free survival; PFS2, time to second progression or death; RECIST, Response Evaluation Criteria in Solid Tumours; TOI, Trial Outcome Index

# SOLO-1 TFST substantially delayed by maintenance olaparib



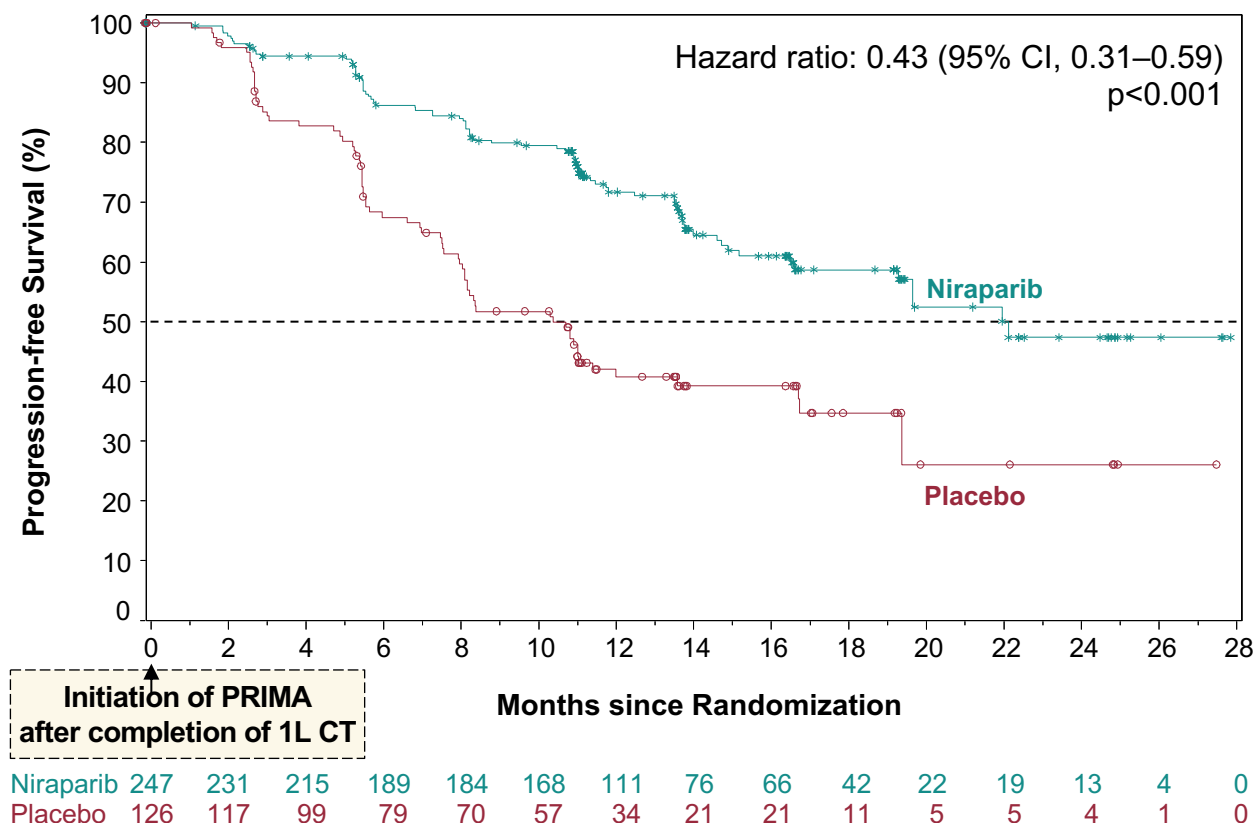
# PRIMA Trial Design



1L, first-line; BICR, blinded independent central review; CR, complete response; OC, ovarian cancer; PFS2, progression-free survival 2; PR partial response; PRO, patient-reported outcomes; TFST, time to first subsequent therapy.

Modified from González-Martín A, Presented at ESMO 2019, Barcelona, Spain  
González-Martín A, et al. *N Engl J Med*. 2019. doi:10.1056/NEJMoa1910962.

# PRIMA Primary Endpoint, PFS Benefit in the HR-deficient Population

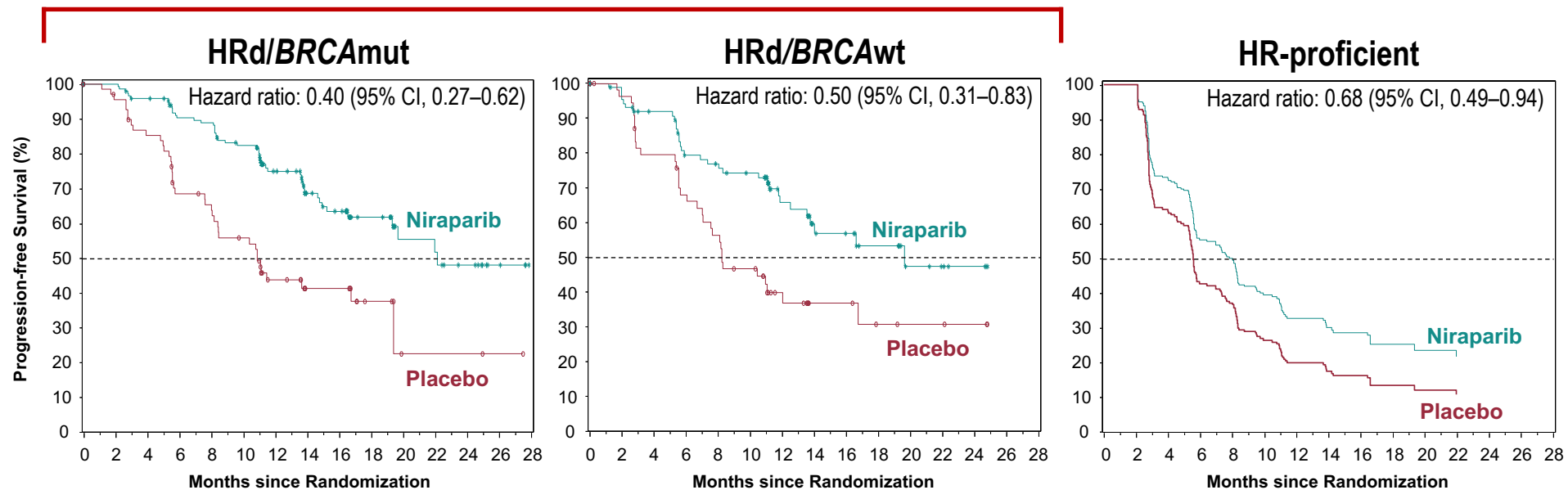


57% reduction in hazard of relapse or death with niraparib		
	Niraparib (n=247)	Placebo (n=126)
<b>Median PFS</b>		
months (95% CI)	21.9 (19.3–NE)	10.4 (8.1–12.1)
<b>Patients without PD or death (%)</b>		
6 months	86%	68%
12 months	72%	42%
18 months	59%	35%

1L, first-line; CI, confidence interval; CT, chemotherapy; HR, homologous recombination; NE, not estimable; PD, progressive disease; PFS, progression-free survival. Sensitivity analysis of PFS by the investigator was similar to and supported the BICR analysis.

# PRIMA PFS Benefit in Biomarker Subgroups

## Homologous Recombination Deficient (HRd)



- Niraparib provided similar clinical benefit in the HRd subgroups (*BRCAmut* and *BRCAwT*)
- Niraparib provide clinically significant benefit in the HR-proficient subgroup with a 32% risk reduction in progression or death

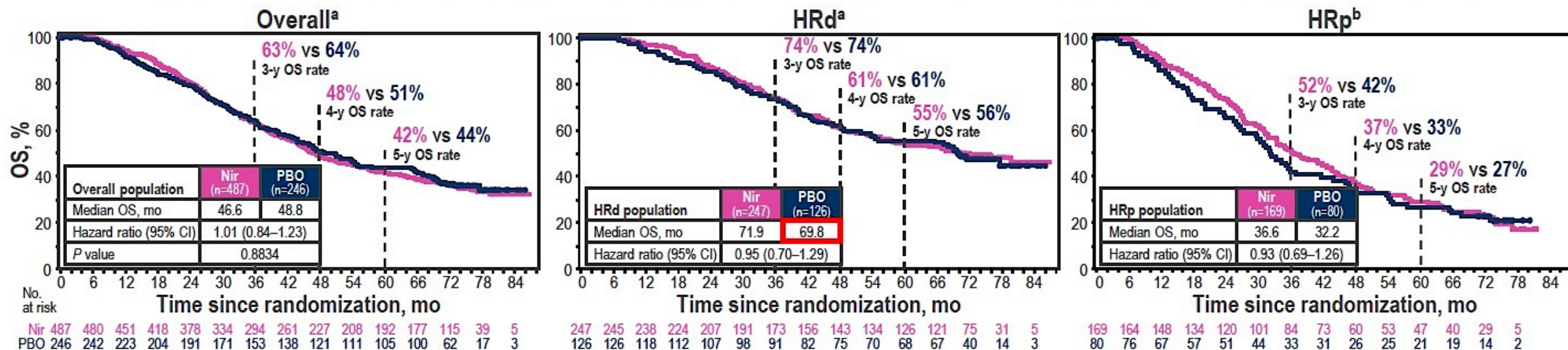
CI, confidence interval; HR, homologous recombination; mut, mutation; PFS, progression-free survival wt, wild-type.



# PRIMA/ENGOT-OV26/GOG-3012 Trial of Niraparib 1L Maintenance *cont.*

Final OS (62.5% maturity in overall population)

No difference in OS between niraparib and placebo arms in the overall, HRd, and HRp populations



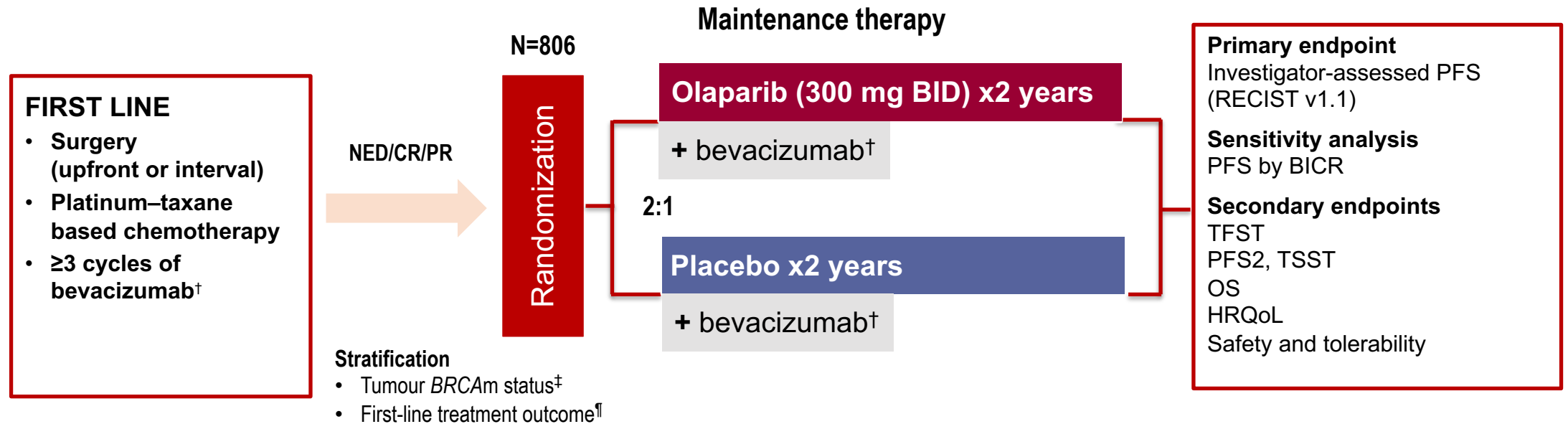
- OS results for all prespecified biomarker-defined subgroups consistent with overall population<sup>c</sup>
- Assessment of long-term efficacy outcomes in high-risk aOC may be complicated by multiple factors<sup>1</sup>
  - Patient population<sup>2–4</sup>
  - Extended postprogression survival<sup>1,5</sup>
  - Subsequent therapy<sup>1,5</sup>

<sup>a</sup>Hazard ratios and 95% CIs for overall and HRd populations calculated using stratified Cox proportional hazards model with randomization stratification factors. <sup>b</sup>Hazard ratio and 95% CI for HRp population calculated using unstratified Cox proportional hazards model. <sup>c</sup>OS results for the HRnd population (unstratified): hazard ratio (95% CI), 1.39 (0.88–2.19). aOC, advanced ovarian cancer; HRd, homologous recombination deficient; HRnd, homologous recombination status not determined; HRp, homologous recombination proficient; OS, overall survival; Nir, niraparib; PBO, placebo. 1. Matulonis UA, et al. *Cancer*. 2015;121(11):1737–1746. 2. Siegel RL, et al. *CA Cancer J Clin*. 2024;74(1):12–49. 3. Elattar A, et al. *Cochrane Database Syst Rev*. 2011;201(8):CD007565. 4. Sun C, et al. *PLoS One*. 2014;9(5):e95285. 5. Delgado A, et al. *Am J Cancer Res*. 2021;11(4):1121–1131.



# Phase III PAOLA-1/ENGOT-ov25: maintenance olaparib with bevacizumab in patients with newly diagnosed, advanced ovarian cancer treated with platinum-based chemotherapy and bevacizumab as standard of care

Newly diagnosed FIGO stage III–IV high-grade serous/endometrioid ovarian, fallopian tube or primary peritoneal cancer\*

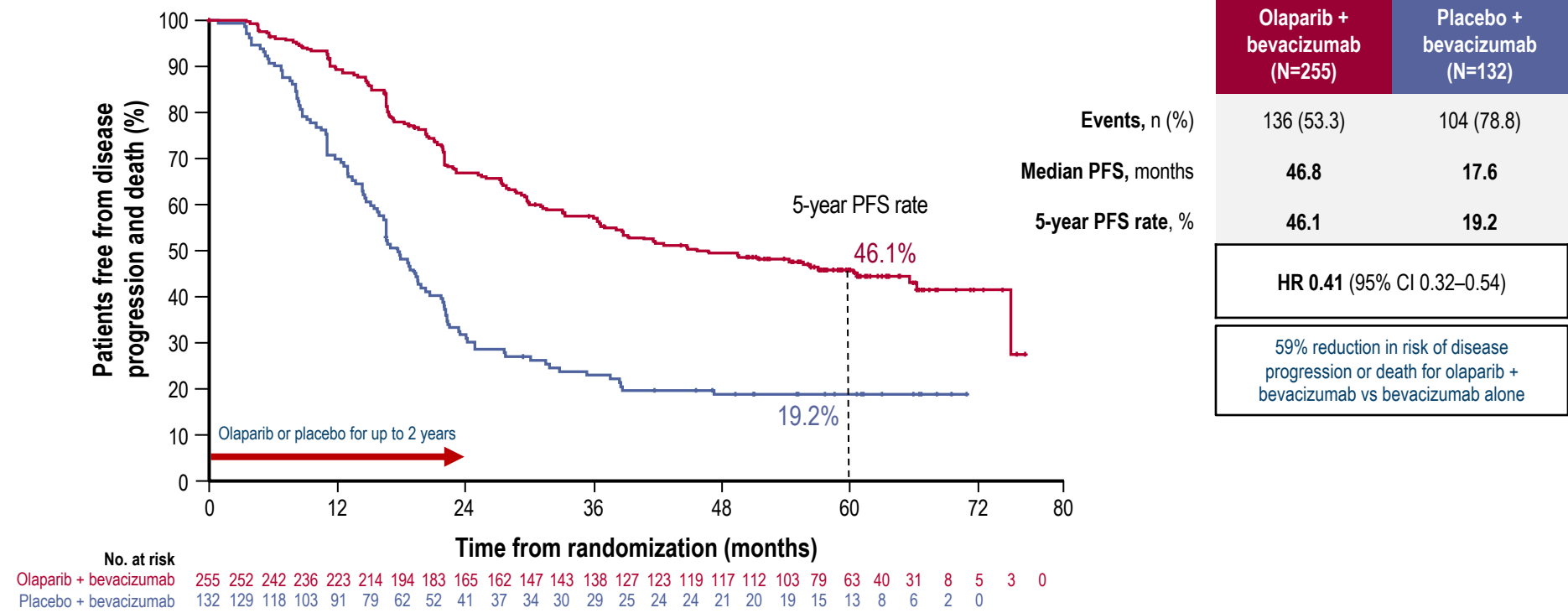


\*Patients with other epithelial non-mucinous ovarian cancer were eligible if they had a germline *BRCA1* and/or *BRCA2* mutation

<sup>†</sup>Bevacizumab: 15 mg/kg, every 3 weeks for a total of 15 months, including when administered with chemotherapy; <sup>‡</sup>By central labs; <sup>¶</sup>According to timing of surgery and NED/CR/PR

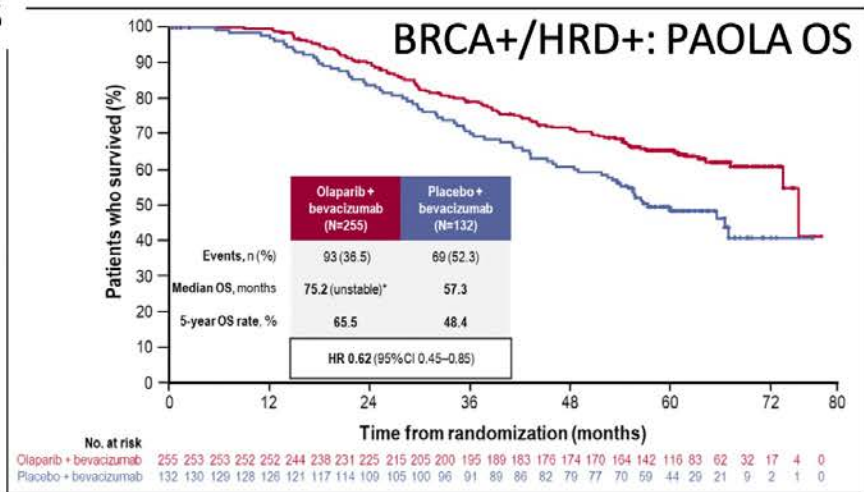
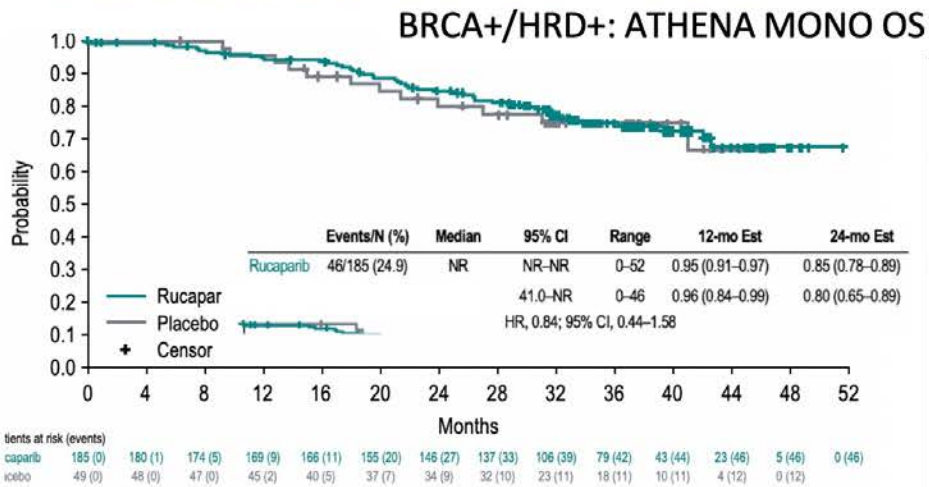
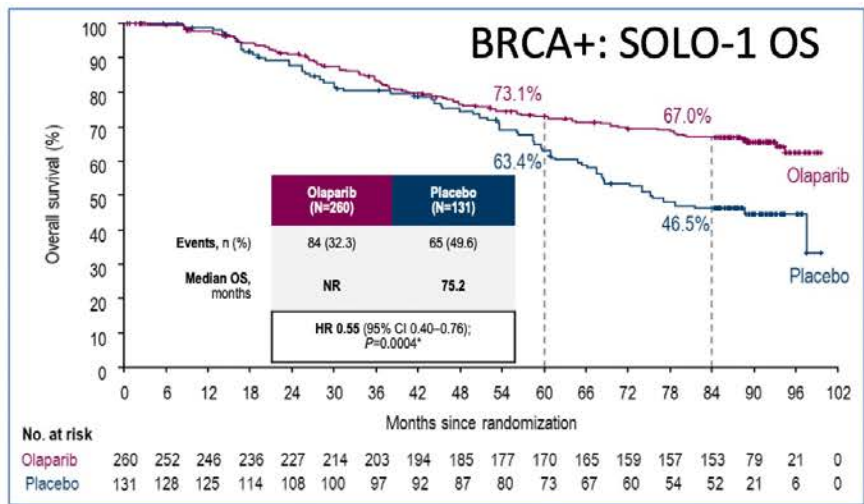
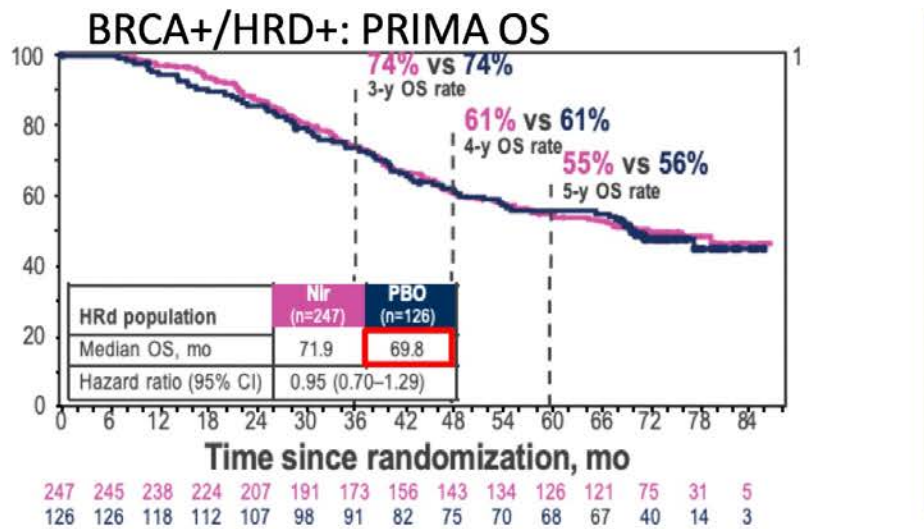
BICR, blinded independent central review; HRQoL, health-related quality of life; PFS2, time to second progression or death; RECIST, Response Evaluation Criteria in Solid Tumours; TFST, time to first subsequent therapy or death; TSST, time to second subsequent therapy or death

# Updated PFS: HRD-positive population\*



\*Descriptive analysis; PFS by investigator-assessment (modified RECIST v1.1).

# Updated OS – First Line Ovarian Cancer



The James

# Upfront Ovarian Cancer Maintenance Treatment

- PARPi versus Bev versus Both
- Curative intent is the goal
- Biomarker derived therapy is now the standard.
- Management of Toxicity is essential

# PARPi + IO in Ovarian Cancer

Trial	Anti-angiogenic	PARPi	ICI	Median PFS	PFS HR
FIRST ENGOT OV-44	± Bevacizumab	Niraparib	Dostarlimab	Statistically significant improvement (press release)	
DUO-O ENGOT OV-46	Bevacizumab	Olaparib	Durvalumab	25.1 mo (ITT population)	0.61 (0.51-0.73)
ATHENA GOG-3020 ENGOT OV-45	-	Rucaparib	Nivolumab	15.0 mo (ITT population)	1.29 (1.08–1.53)
ENGOT OV-43 KEYLYNK-001	± Bevacizumab	Olaparib	Pembrolizumab	23.9 mo (CPS ≥10 population)	0.66 (0.53-0.83)

Trillsch et al. ESMO GU 2024;Abstract 43O.

Monk et al. ESMO 2024;Abstract LBA30.

Vergote et al. ESGO 2025.

<https://www.gsk.com/en-gb/media/press-releases/gsk-announces-first-trial-met-its-primary-endpoint-of-progression-free-survival-in-first-line-advanced-ovarian-cancer/>

# **Recurrent Serous Carcinoma of the Ovary, Stage IIIC**

## **BRCA1+, PD-L1+, FOLR1 negative (0%), Her2 negative (score=0)**

Diagnosed in 2006 - TAH/BSO/LND/Omentectomy/Extensive TRS - Stage IIIC Ovarian Cancer

- Followed by Taxol/Carbo x 6 cycles
- Recurred approximately 36 months later with GI symptoms (N/V with GERD), abdominal distention, elevated CA-125 (60)
- Underwent TRS/Omentectomy/Splenectomy - positive for metastatic serous carcinoma
  - Followed by Carbo/Gem/Bev x 6 cycles
- Diagnosed with recurrence 13 years later
  - Followed by Gem/Carboplatin/Bev
  - Started maintenance Bev
  - Started Olaparib, discontinued after 1 dose due to allergic reaction
  - Switched to Niraparib Cycle 2
  - Completed 5 cycles of maintenance Bev, discontinued Cycle 6 due to persistent hypertension.
  - Continued Niraparib

# Roundtable Discussion

## **CONSIDERATIONS FOR PATIENTS RECEIVING A PARP INHIBITOR**

Courtney Arn, CNP

The Ohio State University

James Comprehensive Cancer Center

Columbus, Ohio



# INITIATION OF PARP INHIBITORS

- Baseline Labs
- Patient Education:
  - MOA
  - Indication
  - Side effects/expectations
  - Treatment Plan/Schedule
- Supportive Care
- Co-pay Evaluation/Financial Support

## MECHANISM OF ACTION

- PARP inhibitors block the activity of PARP enzymes, disrupting the normal DNA repair process and ultimately causing cell death, particularly in cancer cells with impaired DNA repair mechanisms like BRCA mutations.
- Tumor cells carrying a *BRCA* mutation have been shown to be significantly more sensitive to PARP inhibition than tumors that do not carry a *BRCA* mutation

## SIDE EFFECTS - NIRAPARIB

- Thrombocytopenia (66%)
- Anemia (64%)
- Nausea (57%)
- Fatigue (51%)
- Neutropenia (42%)
- Constipation (40%)
- Musculoskeletal pain (39%)
- Hypertension (18%)
- Warnings & Precautions: MDS/AML, Hematologic, Hypertension, PRES, Embryo-Fetal Toxicity

## SIDE EFFECTS – OLAPARIB

- Nausea (77%)
- Fatigue (67%)
- Abdominal pain (45%)
- Vomiting (40%)
- Anemia (38%)
- Diarrhea (37%)
- Warnings & Precautions: MDS/AML, Pneumonitis, VTE, Embryo-Fetal Toxicity

## MONITORING & MANAGING SIDE EFFECTS

- Nausea: Prophylactic anti-emetics 30-60 minutes prior to dosing and PRN
- Constipation: Stool softeners, Laxatives, Diet, Physical Activity
- Diarrhea: Anti-diarrheal, Diet, Fluids, Electrolytes
- Fatigue: Hydration, Exercise, PT, consider stimulants
- Hematologic: Plan for monitoring labs, transfuse as needed

## GRADE ≥3 AES OF INTEREST

	PRIMA		PAOLA-1		SOLO-1	
	Niraparib	Placebo	Bevacizumab + Olaparib	Bevacizumab + Placebo	Olaparib	Placebo
n	484	244	535	267	260	130
Anemia	<b>31%</b>	2%	17%	<1%	22%	2%
Neutropenia	<b>13%</b>	1%	6%	3%	9%	5%
Thrombocytopenia	<b>29%</b>	<1%	2%	<1%	1%	2%
Fatigue	2%	1%	5%	1%	4%	2%
MDS/AML	Not reported	Not reported	1%	<1%	1%	0
Nausea	1%	1%	2%	1%	1%	0%
Vomiting	1%	1%	1%	2%	<1%	1%
Diarrhea	1%	*****	2%	2%	3%	0
Constipation	<1%	0	Not Reported	Not Reported	0	0
Hypertension	6%	1%	<b>19%</b>	<b>30%</b>	Not Reported	Not Reported

Cross-trial comparisons are not head-to-head studies; varying study designs, methodology, and populations limit ability to draw conclusions of comparative efficacy and safety.

AE, adverse event; AML, acute myeloid leukemia; MDS, myelodysplastic syndrome; thrombo, thrombocytopenia; ↓plt, decreased platelets.

1. González-Martín A, et al. *N Engl J Med*. 2019. doi:10.1056/NEJMoa1910962. 2. González-Martín A, et al. Presented at: ESMO Congress; September 27-October 1, 2019; Barcelona, Spain. Abstract LBA1.

3. Ray-Coquard IL, et al. Presented at: ESMO Congress; September 27-October 1, 2019; Barcelona, Spain. Abstract LBA2. 4. Moore K, et al. *N Engl J Med*. 2018;27;379(26):2495-2505.



## AML/MDS WITH PARP INHIBITOR TREATMENT

Trial	Placebo	Parp Inhibitor
SOLO-2 Olaparib	4%	8%
NOVA Niraparib	1.7% (3.1% in BRCA)	3.5% (6.6% in BRCA)
ARIEL3 Rucaparib	3.2	3.8

Poveda A, Floquet A, Ledermann JA, et al. Olaparib tablets as maintenance therapy in patients with platinum-sensitive relapsed ovarian cancer and *BRCA1/2* mutation (SOLO2/ENGOT-Ov21): a final analysis of a double-blind, randomised, placebo-controlled, phase 3 trial. Supplementary appendix [published online March 18, 2021]. *Lancet Oncol*.

Matulonis UA, Herrstedt J, Oza A, et al. Long-term safety and secondary efficacy endpoints in the ENGOT-OV16/NOVA phase 3 trial of niraparib in recurrent ovarian cancer. Presented at: Society of Gynecological Oncology 2021 Virtual Annual Meeting on Women's Cancer; March 19-21, 2021; Virtual. Abstract 37

Coleman et al. Overall Survival Results From ARIEL3: A Phase 3 Randomized, Double-blind Study of Rucaparib vs Placebo Following Response to Platinum-Based Chemotherapy for Recurrent Ovarian Carcinoma. IGCS 2022

## AML/MDS WITH PARP INHIBITOR TREATMENT

Trial	Placebo	Parp Inhibitor
SOLO-1 Olaparib	0.8%	1.5%
PRIMA Niraparib	1.6%	2.3%
PAOLA-1 Olaparib + bevacizumab	2.2%	1.7%

DiSilvestro P et al. *J Clin Oncol* 2022;41(3):609-17; Monk BJ et al. *Ann Oncol* 2024;35(11):981-92; Ray-Coquard I et al. *Ann Oncol* 2023;34(8):681-92.

## DOSING & ADMINISTRATION

	<b>Olaparib</b>	<b>Niraparib</b>
Dosage Forms	Tablets: 100 mg or 150 mg	Tablets: 100 mg
Dose	300 mg bid	300 mg daily
Starting Dose Modifications	Moderate renal impairment CYP3A inhibitor use	If baseline weight: <77 kg OR platelets: <150,000/uL
Monitor	CBC at baseline and monthly thereafter	<ul style="list-style-type: none"> <li>• CBC weekly for the first month, then monthly for the next 11 months, and then periodically</li> <li>• BP monthly during the first year and periodically</li> </ul>

## NIRAPARIB INDIVIDUALIZED STARTING DOSE

If baseline weight: <170 lb  
OR platelets: <150,000/ $\mu$ L

STARTING DOSE:<sup>‡</sup>  
**200 mg/day**

FIRST DOSE REDUCTION:  
100 mg/day

SECOND DOSE REDUCTION:  
discontinue

If baseline weight:  $\geq$ 170 lb  
AND platelets:  $\geq$ 150,000/ $\mu$ L

STARTING DOSE:<sup>‡</sup>  
**300 mg/day**

FIRST DOSE REDUCTION:  
200 mg/day

SECOND DOSE REDUCTION:  
100 mg/day

THIRD DOSE  
REDUCTION:  
discontinue

# DOSE MODIFICATION

	PRIMA		PAOLA-1		SOLO-1	
	Niraparib	Placebo	Bevacizumab + Olaparib	Bevacizumab + Placebo	Olaparib	Placebo
n	484	244	535	267	260	130
Dose reduction	71%	8%	41%	7%	28%	3%
Dose interruption	80%	18%	54%	24%	52%	17%
AE leading to discontinuation	12%	3%	20%	6%	12%	2%
Grade $\geq 3$ AEs	71%	19%	57%	51%	39%	18%

AE, adverse event.

1. González-Martín A, et al. *N Engl J Med*. 2019. doi:10.1056/NEJMoa1910962. 2. González-Martín A, et al. Presented at: ESMO Congress; September 27-October 1, 2019; Barcelona, Spain. Abstract LBA1. 3. Ray-Coquard IL, et al. Presented at: ESMO Congress; September 27-October 1, 2019; Barcelona, Spain. Abstract LBA2. 4. Moore K, et al. *N Engl J Med*. 2018;27;379(26):2495-2505.

# Roundtable Discussion



# Agenda

**Introduction:** Overview of Ovarian Cancer (OC) Management

**Module 1:** Genetic Testing for Newly Diagnosed Advanced OC

**Module 2:** Role of PARP Inhibitor Maintenance in Newly Diagnosed Advanced OC

**Module 3: Other Available and Investigational Novel Strategies for OC**

**Module 4:** Current and Future Role of Mirvetuximab Soravtansine in OC Treatment

## Clinical Scenario

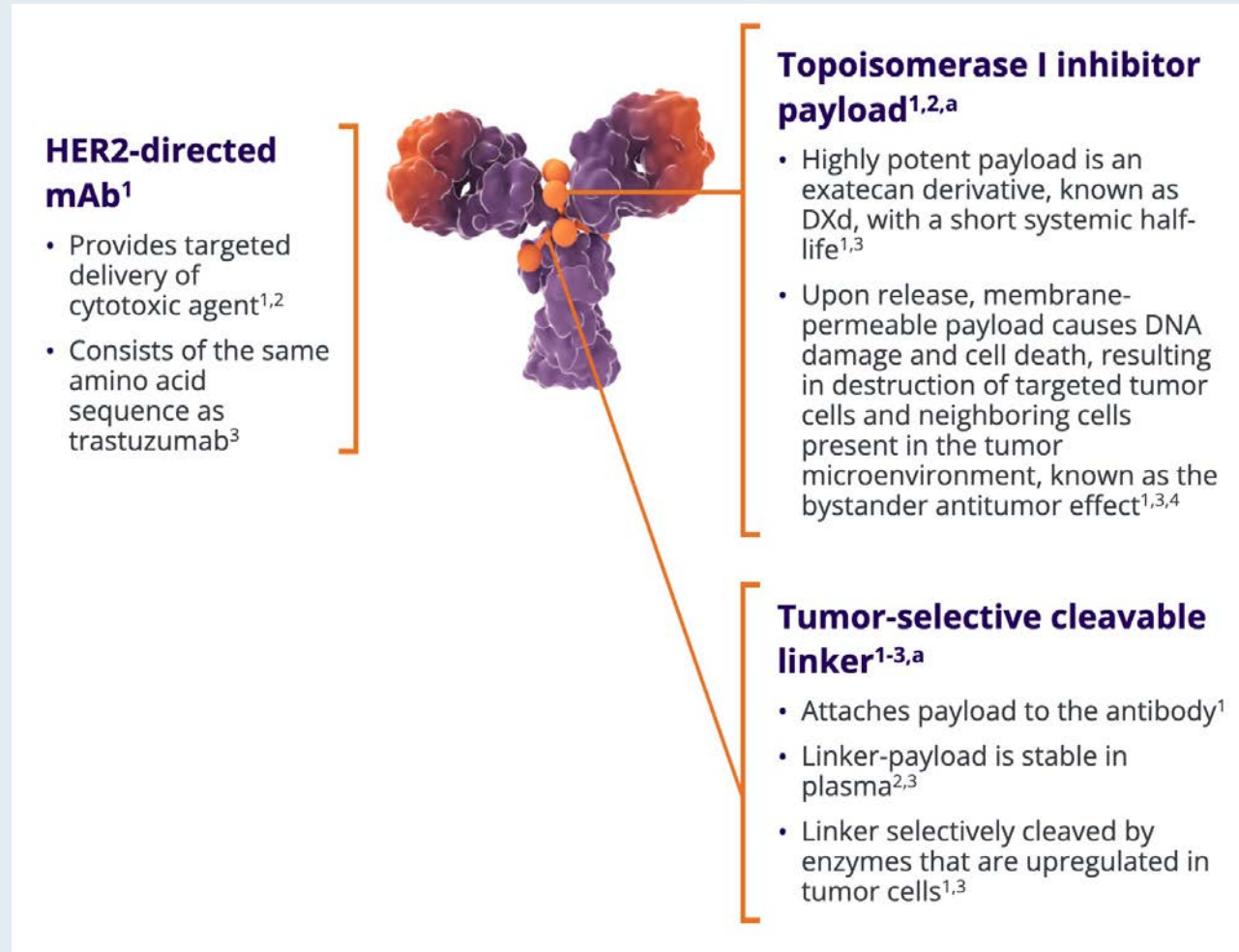
**A patient with advanced OC undergoes resection, receives adjuvant carboplatin/paclitaxel and PARP inhibitor maintenance, experiences disease progression and then receives 2 subsequent lines of platinum-based chemotherapy. Her disease is now platinum resistant and is found to be HER2-positive, and she is about to start treatment with trastuzumab deruxtecan (T-DXd).**

# **Targeted (ADCs) Therapy - Ovarian Cancer**

**David M O'Malley, MD**

**The Ohio State University and  
The James Comprehensive Cancer Center  
Columbus, Ohio**

# Trastuzumab Deruxtecan



1. Prescribing information. 2025.

2. Ogitani Y, Aida T, Hagihara K, et al. DS-8201a, a novel HER2-targeting ADC with a novel DNA topoisomerase I inhibitor, demonstrates a promising antitumor efficacy with differentiation from T-DM1. *Clin Cancer Res*. 2016;22(20):5097-5108.

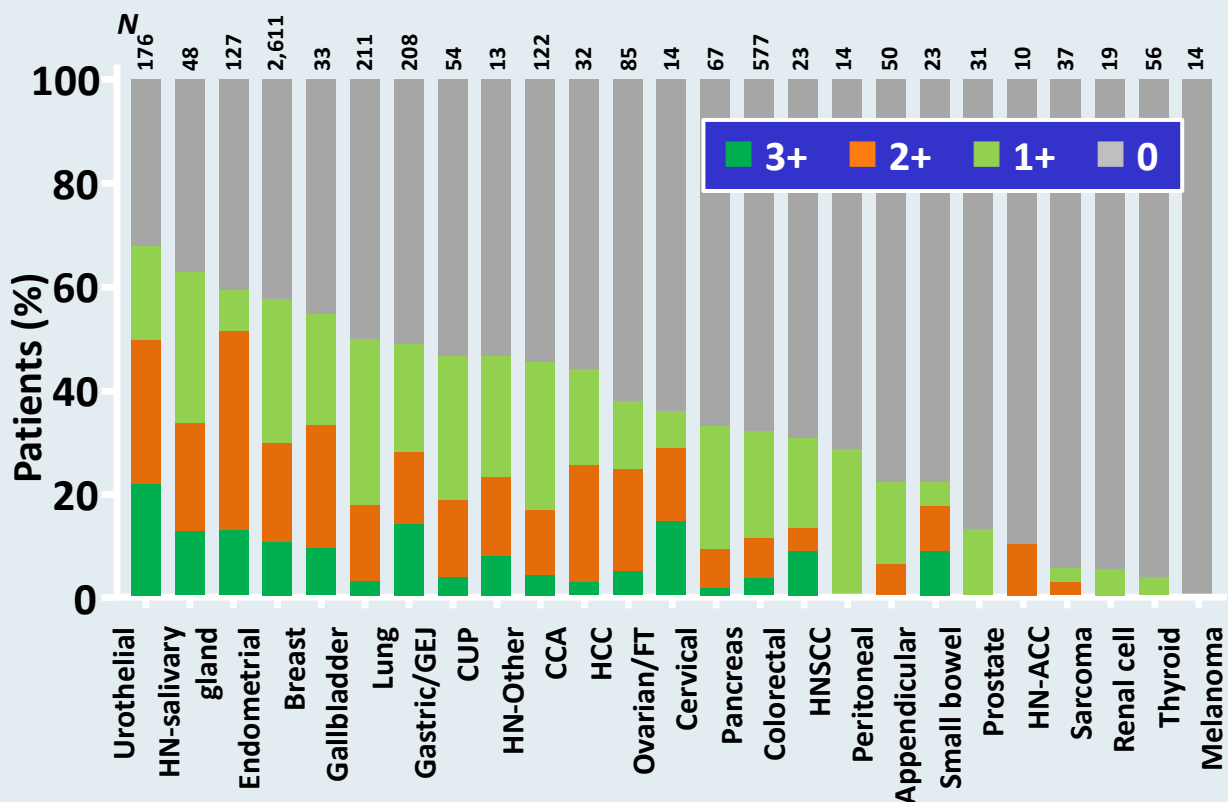
3. Nakada T, Sugihara K, Jikoh T, Abe Y, Agatsuma T. The latest research and development into the antibody–drug conjugate, [fam-] trastuzumab deruxtecan (DS-8201a), for HER2 cancer therapy. *Chem Pharm Bull (Tokyo)*. 2019;67(3):173-185.

<sup>a</sup>Based on in vitro and in vivo non-clinical studies. The clinical relevance of these features is under investigation.

<https://www.enhertuhcp.com/en/mechanism-of-action>. accessed on 4/6/25

# What Is the Incidence of HER2 Expression Across Solid Tumors?

Distribution of HER2 IHC expression levels across cancers

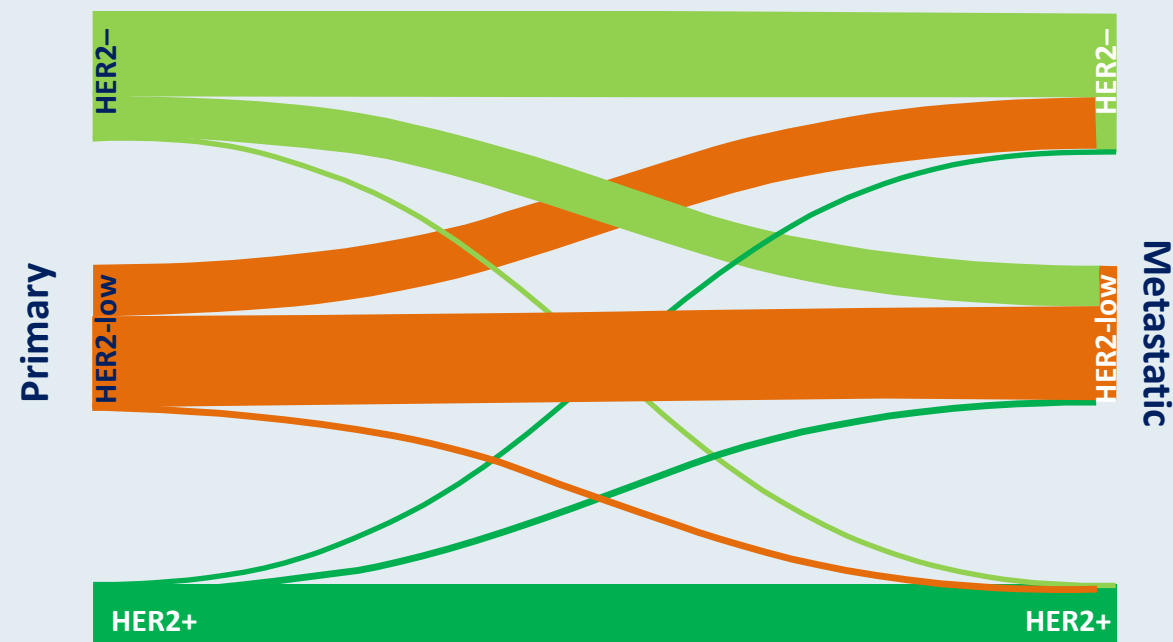


CCA = cholangiocarcinoma; CNS, central nervous system; CUP = cancer of unknown primary; FT = fallopian tube cancer; GEJ = gastroesophageal; GI = gastrointestinal; HCC = hepatocellular carcinoma; HER2 = human epidermal growth factor receptor 2; HN = head and neck; HN-ACC = head and neck-adenoid cystic carcinoma; HNSCC = head and neck squamous cell carcinoma; IHC = immunohistochemistry. \*Row percentages were used in the construction of this table.

HER2 expression across solid tumors

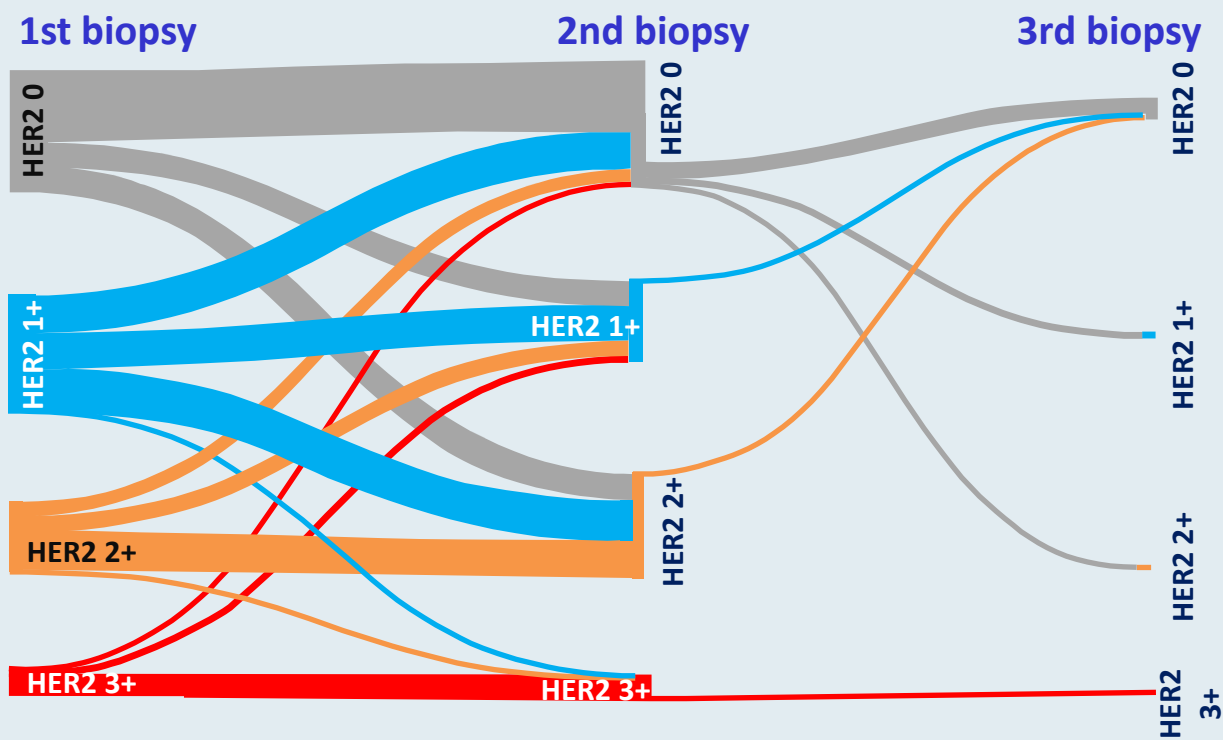
Cancer types		Distribution of HER2 IHC scores across cancers				
		HER2 IHC expression levels, %				Total, n
		0	1+	2+	3+	
Breast		43	28	19	10	2611
Gastric/GEJ		51	21	14	14	208
Biliary tract	CCA	55	29	12	4	122
	Gallbladder	46	21	24	9	33
	Ampullary	50	33	17	0	6
GI—lower	Colorectal	68	21	8	3	577
	Appendiceal	78	16	6	0	50
	Small bowel	78	4	9	9	23
	Anal	100	0	0	0	5
GI—other	Pancreas	67	24	8	2	67
	HCC	56	19	25	0	32
	Mixed CCA and HCC	67	33	0	0	6
Gynecological	Endometrial	41	8	39	13	127
	Ovarian/FT	62	13	20	5	85
	Peritoneal	71	29	0	0	14
	Cervical	64	7	14	14	14
	Vaginal	100	0	0	0	2
	Vulvar	29	14	43	14	7
Head and neck	HN-ACC	90	0	10	0	10
	HN-Other	54	23	15	8	13
	HN-salivary gland	38	30	21	13	48
	HNSCC	70	17	4	9	23
Genitourinary	Urothelial	32	18	28	21	176
	Prostate	87	13	0	0	31
	Renal cell	95	5	0	0	19
	Germ cell/testicular	100	0	0	0	3
	Penile	100	0	0	0	1
Thoracic	Lung	50	32	15	3	211
	Thymic	100	0	0	0	4
Skin	Melanoma	100	0	0	0	14
	Non-melanoma skin	71	14	14	0	7
Other	Adrenal	67	0	33	0	3
	CUP	54	28	15	4	54
	CNS	50	50	0	0	2
	Sarcoma	95	3	3	0	37
	Thyroid	96	4	0	0	56
Total		2361 (50)	1137 (24)	796 (17)	407 (9)	4701

# Does It Change With the Tissue Tested (primary vs metastatic breast cancer)?














		HER2 metastasis <i>n, %</i>			Total
		HER2–	HER2-low	HER2+	
HER2 primary <i>n, %</i>	HER2–	157 (65.4)	78 (32.5)	5 (2.1)	240
	HER2-low	96 (34.8)	171 (62.0)	9 (3.3)	276
	HER2+	4 (3.5)	14 (12.4)	95 (84.1)	113
Total		257 (40.9)	263 (41.8)	109 (17.3)	629

# Across Time?



		HER2 secondary biopsy <i>n, %</i>				Total
		HER2 0	HER2 1+	HER2 2+	HER2 3+	
HER2 first biopsy <i>n, %</i>	HER2 0	26 (57.8)	9 (20.0)	10 (22.2)	0 (0)	45
	HER2 1+	14 (32.6)	13 (30.2)	15 (34.9)	1 (2.3)	43
	HER2 2+	5 (19.2)	6 (23.1)	14 (53.8)	1 (3.8)	26
	HER2 3+	1 (10.0)	2 (20.0)	0 (0)	7 (70.0)	10
Total		46 (37.1)	30 (24.2)	39 (31.5)	9 (7.3)	124

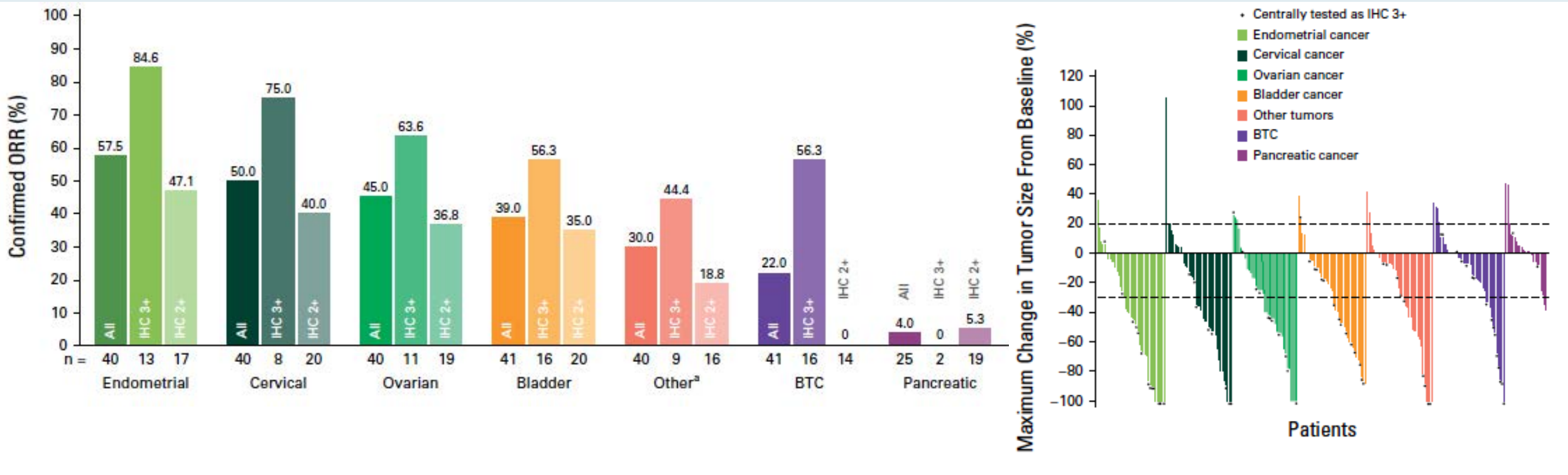
## 6 Efficacy and Safety of Trastuzumab Deruxtecan in Patients With HER2-Expressing Solid Tumors: Primary Results From the DESTINY-PanTumor02 Phase II Trial

Funda Meric-Bernstam, MD<sup>1</sup> ; Vicky Makker, MD<sup>2,3</sup> ; Ana Oaknin, MD<sup>4</sup> ; Do-Youn Oh, MD<sup>5</sup> ; Susana Banerjee, PhD<sup>6</sup> ; Antonio González-Martín, MD<sup>7</sup> ; Kyung Hae Jung, MD<sup>8</sup> ; Iwona Ługowska, MD<sup>9</sup>; Luis Manso, MD<sup>10</sup> ; Aránzazu Manzano, MD<sup>11</sup>; Bohuslav Melichar, MD<sup>12</sup>; Salvatore Siena, MD<sup>13</sup> ; Daniil Stroyakovskiy, MD<sup>14</sup> ; Anitra Fielding, MBChB<sup>15</sup>; Yan Ma, MSc<sup>16</sup>; Soham Puvvada, MD<sup>15</sup>; Norah Shire, PhD<sup>15</sup>; and Jung-Yun Lee, MD<sup>17</sup> 

*J Clin Oncol* 2024;42(1):47-58.

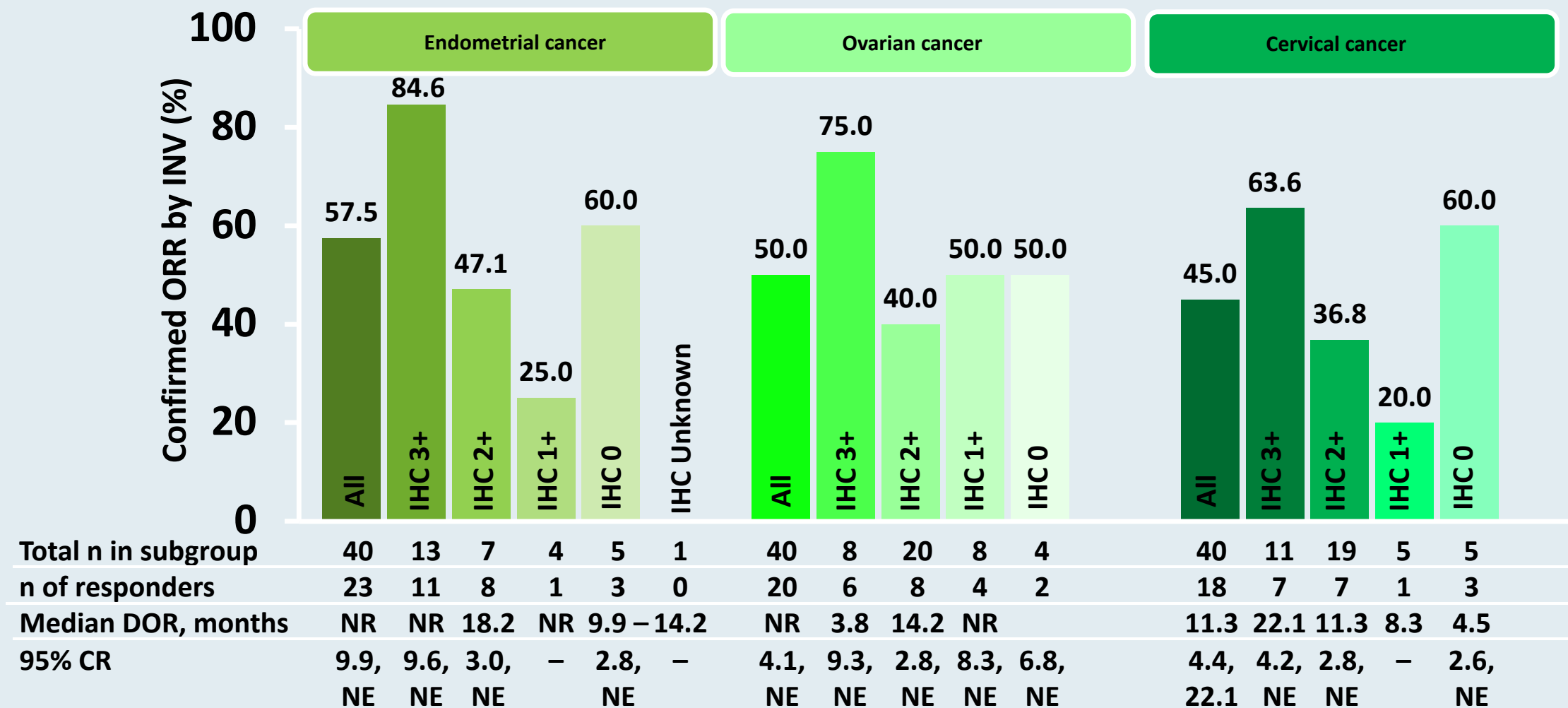


# DESTINY-PanTumor02: Phase II Trial of Trastuzumab Deruxtecan in Patients with HER2-Expressing Solid Tumors



# DESTINY-PanTumor02

## Response by HER2 Expression Level (central)



GYN = gynecological; NE = not estimable; NR = not reached.

Lee J-Y, et al. International Gynecological Cancer Society (IGCS) 2023.

# GOG 3112/ENGOT-ov89

## Phase 3 DESTINY-Ovarian01: T-DXd + Bevacizumab as 1L Maintenance Therapy in HER2-Expressing Ovarian Cancer

### Tissue Prescreening

HER2 expression (IHC 3+/2+/1+) per 2016 ASCO CAP gastric cancer IHC scoring guidelines by central confirmation

### Main Screening

#### Key Patient Population

- Epithelial high grade ovarian, fallopian tube or primary peritoneal carcinoma
- FIGO Stage III or IV
- Non-PD after completion front-line carboplatin-paclitaxel +/- bevacizumab
- Eligible for bevacizumab maintenance as per SoC and investigator discretion and not appropriate for PARPi maintenance as per investigator discretion

### Treatment

T-DXd 5.4 mg/kg Q3W +  
Bevacizumab 15mg/kg Q3W

Bevacizumab  
15mg/kg Q3W

1:1

N= 562  
IHC 3+/2+=480 (85%)  
IHC 1+=82 (15%)

### Follow-up

- 40-Day (+7 days) Follow-up
- Long Term Survival Follow-up

PI: Joyce Liu

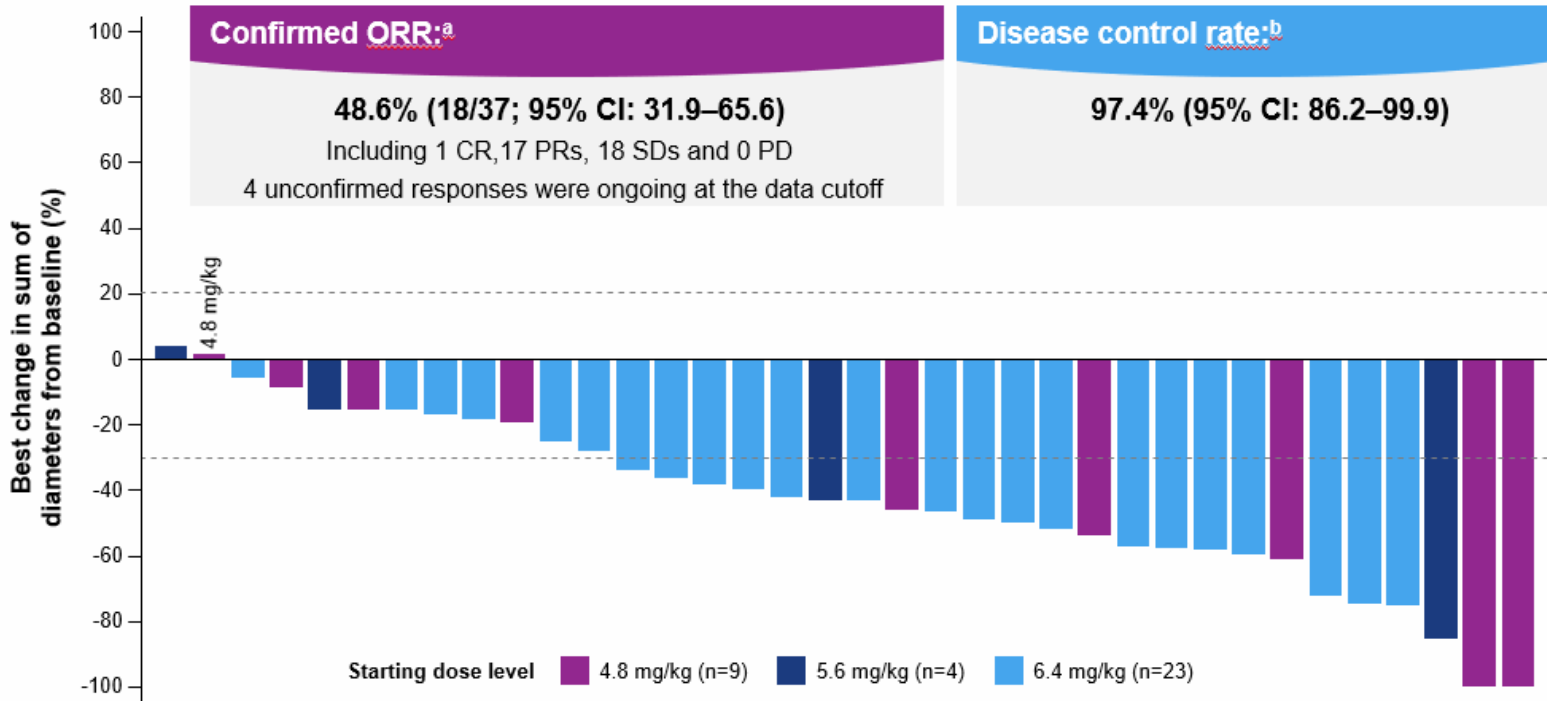
#### Stratification Factors

- HER2 IHC 1+ vs 2+ vs 3+
- Residual disease after surgery or no surgery vs No Residual disease after surgery
- Serous vs Non-serous histology

#### Study Intervention

- T-DXd until BICR PD or 34 cycles
- Bevacizumab until BICR PD or 16 cycles (Maximum of 22 cycles including doses given with platinum-based chemotherapy)

# Targeting CDH6



	Raludotatug deruxtecan (DS-6000) <sup>1,2</sup>
Payload	Topoisomerase 1 inhibitor (DXd)
DAR	8
Linker	Cleavable tetrapeptide based linker
Trial	NCT04707248

## Median DOR:<sup>a</sup>

**11.2 months (95% CI: 3.1–NE)**  
Median (range) FU: 6.7 months (1.4–16.8)

## Median TTR:<sup>a</sup>

**5.7 weeks (95% CI: 5.3–11.4)**

## Median PFS:<sup>b</sup>

**8.1 months (95% CI: 5.3–NE)**  
Median (range) FU: 4.0 months (0–25.1)

1. Moore K, et al. Presented at European Society for Medical Oncology (ESMO) Annual Meeting; 20-24 October 2023; Madrid, Spain.;

2. NCT04707248. Accessed from: <https://clinicaltrials.gov/study/NCT04707248?cond=NCT04707248&rank=1>.

# REJOICE-Ovarian01/GOG-3096:

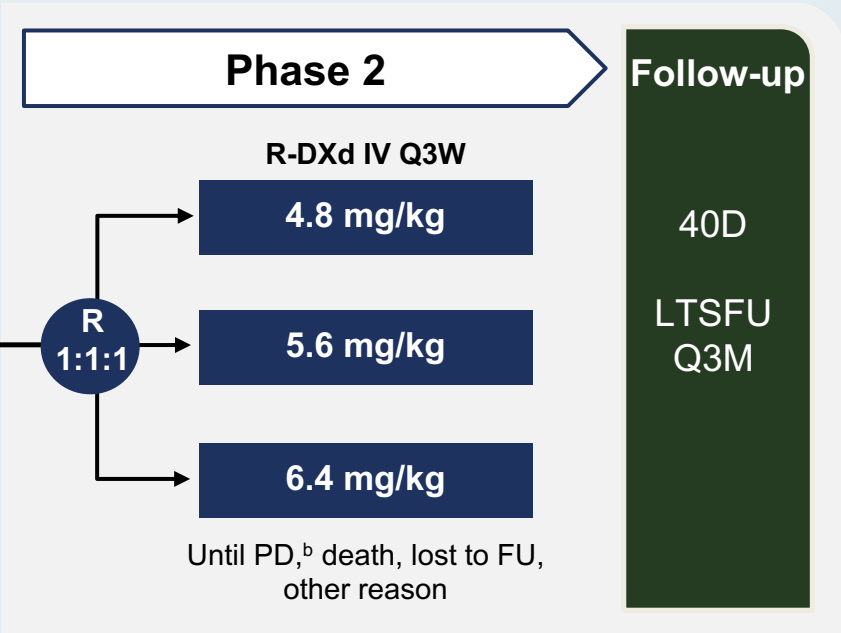
## Phase 2/3 Randomized Study of R-DXd in Platinum-Resistant EOC

### Key eligibility criteria:

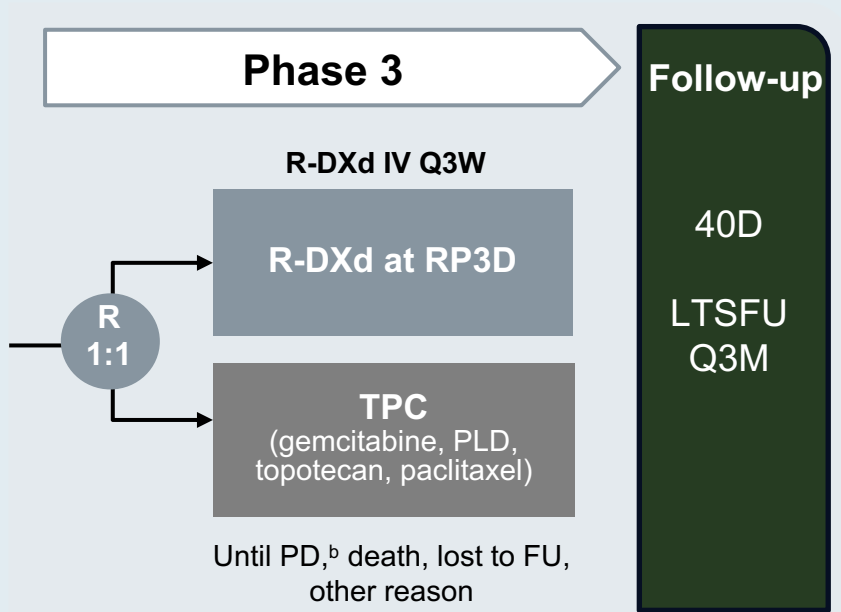
- High-grade serous or endometrioid ovarian, primary peritoneal, or fallopian tube cancer
- 1–3 prior LOT (inc. bevacizumab)
- Platinum-resistant disease
- Prior MIRV if high FR $\alpha^a$
- ECOG PS 0–1
- No prior CDH6-targeting agents or ADCs with linked TOPO I inhibitor
- Patients with primary platinum-refractory disease are not eligible

### Stratification:

- Number of prior LOT (1 vs 2/3)
- CDH6 expression (high vs low)
- TPC (paclitaxel vs others; *Ph 3 only*)



Primary endpoints:	Key secondary endpoints:
<ul style="list-style-type: none"><li>• ORR per BICR<sup>b</sup></li></ul>	<ul style="list-style-type: none"><li>• ORR per inv<sup>b</sup></li><li>• DOR</li></ul>



Primary endpoints:	Key secondary endpoints:
<ul style="list-style-type: none"><li>• ORR per BICR<sup>b</sup></li><li>• PFS per BICR<sup>b</sup></li></ul>	<ul style="list-style-type: none"><li>• OS</li><li>• QOL</li></ul>

NCT06161025

# Key Takeaways

- Phase 2 DESTINY-PanTumor02, led to tumor-agnostic indication
  - April 5, 2024: FDA granted accelerated approval to T-DXd for unresectable/HER2+ (IHC3+) solid tumors after prior systemic treatment and no satisfactory alternative treatment options
  - Greatest benefit in IHC 3+ population
- Further exploration of T-DXd in HER2 IHC 1+/HER2-low is warranted
- Multiple Trials are being initiated for HER2 expressing gyn cancer
- Next Generation of ADCs is here

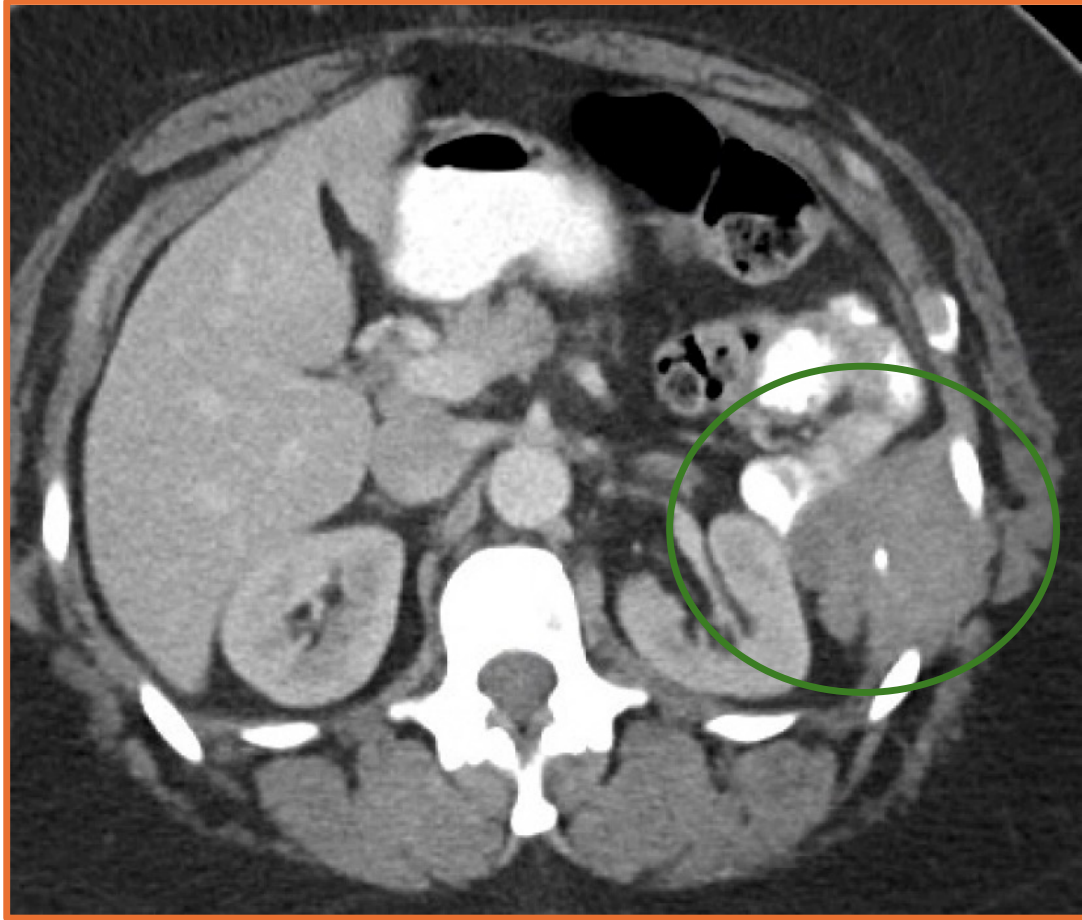
# Recurrent Endometrioid Ovarian Cancer

Line of therapy	Therapy
1	Tumor Reductive Surgery + Carboplatin/paclitaxel x 6
2	Carboplatin/paclitaxel x 6
3	PD1i x 5 years
4	Megestrol
5	Letrozole + ribociclib

- NGS Testing
  - PTEN Mutation
- HER2 IHC: 3+
- Folate Receptor alpha: 0%
- **Started T-DXd**
- **Reduced dose to 4.4 mg/kg Cycle 3 due to significant fatigue and diarrhea**
- **Reduced dose to 3.2 mg/kg Cycle 9 due to persistent fatigue despite supportive care.**
- **Has Received >20 cycles**



**Baseline**



**After 20 cycles — ongoing PR**





# Roundtable Discussion

# Nursing Considerations for Patients Receiving T-DXd

Courtney Arn, CNP

The Ohio State University

James Comprehensive Cancer Center

Columbus, Ohio

# Patient Education

- MOA/Indication
- Potential Side Effects
- Symptom Management
- Treatment Plan/Schedule
- Pre and post medications
- Baseline labs and procedures (echo)

# How does T-DXd work?

## HER2-directed mAb

- Provides targeted delivery of cytotoxic agent
- Consists of the same amino acid sequence as trastuzumab

## Topoisomerase I inhibitor payload

- Highly potent payload is an exatecan derivative, known as DXd
- Upon release, payload causes DNA damage and cell death, resulting in destruction of targeted tumor cells and neighboring cells present in the tumor microenvironment, known as the bystander antitumor effect

## Tumor-selective cleavable linker

- Attaches payload to the antibody

## Side Effects

- Nausea (72%)
- Fatigue (55%)
- Vomiting (38%)
- Alopecia (37%)
- Constipation (32%)
- Decreased appetite (31%)
- Diarrhea (30%)
- Musculoskeletal pain (24%).
- Hematologic: Leukopenia (73%), Anemia (67%), Neutropenia (65%), decreased lymphocyte count (60%), Thrombocytopenia (48%), increased AST (46%), increased ALT (44%), increased alkaline phosphatase (39%), Hypokalemia (32%)

## ILD/Pneumonitis Associated With T-DXd

- 15% of patients receiving T-DXd
- 87.0% had their first event within 12 months
  - Median: 5.4 months
  - Range: <0.1 –46.8 months
- Median time to onset: 5-6 months
- Most patients with ILD/pneumonitis experienced low-grade events (grade 1 or 2, 77.4%)
- Overall rate of fatal events: 2.2%

# Five “S” strategies to help detect and manage ILD/pneumonitis

Screen	Scan	Synergy	Suspend treatment	Steroids
<ul style="list-style-type: none"><li>• Careful patient selection</li><li>• Optimize the monitoring strategies based on the baseline risk;</li><li>• Screening continues during treatment</li><li>• Regular clinical assessments to exclude signs/symptoms of ILD</li><li>• Increased knowledge on the impact of prior ILD with other treatments on future risk of ILD</li></ul>	<ul style="list-style-type: none"><li>• The fundamental diagnostic tools for ILD remain CT scans (high-resolution)</li><li>• Baseline scan is recommended</li><li>• Repeat scans to be performed every 6 to 12 weeks</li></ul>	<ul style="list-style-type: none"><li>• Involves a teamwork</li><li>• Educating patients</li><li>• Educate the entire the care team</li><li>• Multidisciplinary management once ILD is suspected<ul style="list-style-type: none"><li>– Pulmonologists</li><li>– Additional Testing</li></ul></li></ul>	<ul style="list-style-type: none"><li>• T-DXd should always be interrupted if ILD is suspected</li><li>• Should only be restarted in the case of asymptomatic ILD that fully resolves</li></ul>	<ul style="list-style-type: none"><li>• Mainstay for treating are corticosteroids</li><li>• Dose to be adapted to the toxicity grade</li></ul>

# Interstitial Lung Disease: Recognition and Management

- **Advise** patients of risks of ILD prior to start of treatment, as well as signs/symptoms of ILD
- **Monitor** for new or worsening cough, dyspnea, or fever

- **Incidental findings on routine scan**
- **Symptomatic findings**

## If ILD is suspected...

- Exclude other etiologies, including infectious etiologies
- Initiate evaluation without delay, which may include
  - CT (High-resolution)
  - Consultation with pulmonologist
  - Infectious Workup
  - Additional tests, as clinically indicated

## Grade 1 (asymptomatic)

- Hold T-DXd until resolved
- May resume treatment once fully resolved by imaging
- Consider starting systemic steroids (eg, 0.5 mg/kg/day of prednisone or equivalent) until improvement, followed by gradual taper over 4 weeks
- If >28 days to resolve, reduce dose by 1 dose level

## Grade 2+ (symptomatic)

- Discontinue T-DXd permanently
- Begin steroid treatment (eg, prednisone  $\geq 1$  mg/kg daily) with gradual taper



### **Anemia/Neutropenia/Thrombocytopenia**

- Dose reductions or delays
- Transfusion
- G-CSF for prevention and/or management of neutropenia

### **Nausea/Vomiting**

- Moderate-High emetogenic risk
- Initiate tailored prophylactic antiemetic regimens (2–3 agents) before T-DXd infusion + home regimen for 3-4 days

### **Fatigue**

- Assess/counsel
- Consider holding/dose reductions
- Rule out other causes
- Encourage exercise/physical activity/PT

### **Left ventricular dysfunction**

- Baseline LVEF and regular monitoring (every 3–4 months)
- Dose delay/discontinuations

### **Diarrhea**

- Infectious workup
- Anti-diarrheal (Loperamide, Diphenoxylate / Atropine)
- Fluids/electrolytes

### **Alopecia**

- Patient counseling/education
- Wig prescription
- Scalp cooling



**ONCE EVERY  
3 WEEKS**  
(21-day cycle)



**INITIAL  
INFUSION**



**SUBSEQUENT  
INFUSIONS**

---

**Continue until disease progression or unacceptable toxicity**

# Recommended Dose Reductions

Dose Reduction Schedule	5.4 mg/kg starting dose
First Dose Reduction	4.4 mg/kg
Second Dose Reduction	3.2 mg/kg
Requirement for further dose reduction	Discontinue Treatment

# T-DXd: Infusion-Related Reactions

- Prompt recognition and treatment are important for reducing the risk of severe symptoms
  - Signs of T-DXd-related IRRs include fever and chills, N/V, pain, headache, dizziness, dyspnea, and/or hypotension
- Infusion 1 over 90 minutes → *if well tolerated* → subsequent infusions 30 minutes
  - 1% to 3% of patients receiving T-DXd experience an IRR with T-DXd 5.4 mg/kg.
- Grade 1: Reduce infusion rate to 50%
- Grade 2: Temporarily stop infusion
- Grade 3 or 4: Permanently stop
- Keep resources to treat IRR readily on hand
- Suspected anaphylaxis:
  - Follow local management guidelines
  - epinephrine (1 mg/mL IM every 5–15 minutes);
  - normal saline (1–2 L at 5–10 ml/kg for first 5 minutes IV);
  - H1/H2 antagonists

IRR = infusion-related reaction; N/V = nausea and/or vomiting.

# CASE STUDY

- Patient with recurrent high grade serous ovarian cancer (germline BRCA2+, HER2 IHC 3+, FOLR 0%)
- 2020: Diagnosed
- 2022: Completed adjuvant carboplatin and paclitaxel, followed by PARP maintenance
- 2023: Disease recurrence; Gem/Cis/Bev followed by maintenance Bev x 9 months
- 2024: Disease progression; Gem/Cis/Bev, progressed after 3 cycles of maintenance Bev
- 2025: Started treatment on trastuzumab deruxtecan (T-DXd).
- Near CR after 3 cycles, side effects are well controlled with supportive care
- Social History: 2 children in high school, enjoys traveling

# Roundtable Discussion

# **Other Nursing Considerations Related to OC Management**

**Jennifer Filipi, MSN, NP**

Department of Gynecologic Oncology  
Massachusetts General Hospital Cancer Center  
Boston, Massachusetts

# Case Presentation

- 39 year old therapist, artist, and traveler with platinum resistant ovarian cancer, negative genetics, FOLR1 negative, HER2 negative.
- Diagnosed in 2020, Stage III
  - Complete cytoreductive surgery → Carbo/paclitaxel
  - 2022: Carbo/PLD
  - 2023: platinum resistant → bev/paclitaxel
  - 2023: clinical trial (ID + immunotherapy)



Stacey's Adventure Log, 2nd Ed. 9-2005

Place	Location	Activity	Website	Length of Trip	Timeframe	Stacey Was Here	You Were Here
The Huntington	CA, San Marino	Library, Art Museum, Botanical Gardens, Angeles Nat Forest	<a href="http://www.huntington.org/">http://www.huntington.org/</a>	Overnight	Winter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Parc Oméga	Canada, Montreal	Gabriel Wildlife Park, Sleep Among Wolves	<a href="http://www.parcom.ca/">http://www.parcom.ca/</a>	5 Days	Anytime	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Biotope de Montreal	Canada, Montreal	Indoor Ecosystem Zoo	<a href="http://www.biotope.org/">http://www.biotope.org/</a>	Overnight	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Montreal Orchards	Canada, Montreal	Huge Botanical Gardens & Arboretum; Insectarium	<a href="http://www.montrealorchards.org/">http://www.montrealorchards.org/</a>	2-3 Days	Anytime	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Butterwood Farm	Canada, Montreal	Huge Maze; Lavender; PickYourOwn seasonal fruits	<a href="http://www.butterwoodfarm.org/">http://www.butterwoodfarm.org/</a>	2-3 Days	June-Sept	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hartford Flower Company	CT, Gales Ferry	Wine Maze; Lavender; PickYourOwn seasonal fruits	<a href="http://www.hartflower.com/">http://www.hartflower.com/</a>	Day Trip	July	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mystic Village	CT, Griswold	Ice Cream & Sunbathers	<a href="http://www.mysticvillage.com/">http://www.mysticvillage.com/</a>	Day Trip	Fri. & Sat.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mystic Aquarium	CT, Hartford	Woman owned distillery; botanically infused	<a href="http://www.mysticaquarium.org/">http://www.mysticaquarium.org/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Deviant Donuts	CT, Mystic	Aquarium with animal encounter experiences	<a href="http://www.deviantdonuts.com/">http://www.deviantdonuts.com/</a>	Day Trip	Anytime	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mew Cat Cafe	CT, Mystic	Restaurants and specialty shops	<a href="http://www.mewcatcafe.com/">http://www.mewcatcafe.com/</a>	Day Trip	Anytime	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dinosaur State Park	CT, Mystic	Gourmet Donuts; Vegan	<a href="http://www.dinosaurstatepark.org/">http://www.dinosaurstatepark.org/</a>	Day Trip	Anytime	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Animal Adventures & Rescue Center	CT, New Haven	Cafe with Cat visitation & adoption center	<a href="http://www.animaladventures.org/">http://www.animaladventures.org/</a>	Day Trip	Anytime	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arnold Arboretum	MA, Acton	Animal rescue shelter; exotic animal encounters	<a href="http://www.arnoldarboretum.org/">http://www.arnoldarboretum.org/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Franklin Park Zoo	MA, Boston	Arboretum, gardens, walking trails	<a href="http://www.franklinparkzoo.org/">http://www.franklinparkzoo.org/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Museum of Illusions	MA, Boston	Arboretum, gardens, walking trails	<a href="http://www.museumofillusions.org/">http://www.museumofillusions.org/</a>	Day Trip	Anytime	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Far Out Ice Cream	MA, Boston	Interactive Boston exhibits	<a href="http://www.farouticecream.com/">http://www.farouticecream.com/</a>	Day Trip	Anytime	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Boston Duck Tours	MA, Boston	New Zealand style ice cream	<a href="http://www.bostonducktours.com/">http://www.bostonducktours.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tower Hill Botanical Gardens	MA, Boston	Tour Boston by land & sea	<a href="http://www.towerhill.org/">http://www.towerhill.org/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Trillium Brewery	MA, Canton	Seasonal Light Events at Night	<a href="http://www.trilliumbrewery.com/">http://www.trilliumbrewery.com/</a>	Day Trip	Summer	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Thunderbolt Mountain Coaster	MA, Canton	Seasonal Light Events at Night	<a href="http://www.thunderboltcoaster.com/">http://www.thunderboltcoaster.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lizzie Borden Ghost Hunt	MA, Canton	Seasonal Light Events at Night	<a href="http://www.lizziebordenghosthunt.com/">http://www.lizziebordenghosthunt.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Highfield Hall & Gardens	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.highfieldhall.com/">http://www.highfieldhall.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Garden in the Woods	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.gardeninthewoods.com/">http://www.gardeninthewoods.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jersey Peak Mountain Resort	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.jerseypeakmountainresort.com/">http://www.jerseypeakmountainresort.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Harvard Alpaca Ranch	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.harvardalpaceranch.com/">http://www.harvardalpaceranch.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The Farm at Sunbury	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.thefarmatsunbury.com/">http://www.thefarmatsunbury.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Castle Hill on the Crane Estate	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.castlehill.org/">http://www.castlehill.org/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The Mount - Ghost Tours	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.themount.org/">http://www.themount.org/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tanglewood	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.tanglewood.org/">http://www.tanglewood.org/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ventforth Hall	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.ventforthhall.com/">http://www.ventforthhall.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Apex Entertainment	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.apexentertainment.com/">http://www.apexentertainment.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Southwick Zoo	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.southwickzoo.com/">http://www.southwickzoo.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Eustis Estate	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.eustisestate.com/">http://www.eustisestate.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mary M.B. Wakefield Arboretum	MA, Lenox	Seasonal Light Events at Night	<a href="http://www.marymbwakefieldarboretum.com/">http://www.marymbwakefieldarboretum.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nantucket Daffodil Festival	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.nantucketdaffodilfestival.com/">http://www.nantucketdaffodilfestival.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nantucket Coolidge House	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.nantucketcoolidgehouse.com/">http://www.nantucketcoolidgehouse.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The Tunnel Bar	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.tunnelbar.com/">http://www.tunnelbar.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tranquil Lake Nursery	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.tranquillakenursery.com/">http://www.tranquillakenursery.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Brilliant Danila Flower Farm	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.brilliantdanilaflowerfarm.com/">http://www.brilliantdanilaflowerfarm.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Butterflies of Cape Cod	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.butterfliesofcapecod.com/">http://www.butterfliesofcapecod.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heritage Museums & Gardens	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.heritemuseumsandgardens.com/">http://www.heritemuseumsandgardens.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ward's Berry Farm	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.wardsberryfarm.com/">http://www.wardsberryfarm.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Race Brook Falls Trail	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.racebrookfalls.com/">http://www.racebrookfalls.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Magic Wings	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.magicwings.com/">http://www.magicwings.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dr. Sueva Museum	MA, Nantucket	Seasonal Light Events at Night	<a href="http://www.dr.sueva.com/">http://www.dr.sueva.com/</a>	Day Trip	Spring, Summer, Fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>



# Clinical Trial Participation

- Advantages: good potential for an active drug (several FDA approvals in last 5-10 years), clinical trial team, opportunity to contribute to the fight
- Barriers: frequency of visits, live far from hospital (not available at satellite sites), eligibility requirements often strict
- Communication: detailed explanations (don't just assume), "I don't want to be a guinea pig"- no placebos, will not affect overall care, clinical trial support from pharma company



# Optimizing Oncology Nursing Care

- Patient education and support
  - Discuss goals of care with patient, what is important now, may change over time
    - Introduce palliative care early
  - Educate patients on disease and its management
    - Including potential treatment-related adverse events
  - Provide access to support and resources: support groups, social work, lifestyle medicine, nutrition
  - Encourage ALL patients to participate in clinical trials, if available at your work site
  - Be mindful of social and financial burdens, including oral adherence
  - Helpful tips: bring a support person, give handouts for reference back, “never worry alone” motto
- Multidisciplinary approach



# Back to our case...

Patient in a PR (over a  
year on trial)

## TURNING THE TIDE OVARIAN CANCER RETREAT

**June 15 - 19, 2025**  
Medomak Retreat Center  
Washington, Maine

A retreat to empower women  
from New England who are living  
with ovarian cancer



# Roundtable Discussion

# Agenda

**Introduction:** Overview of Ovarian Cancer (OC) Management

**Module 1:** Genetic Testing for Newly Diagnosed Advanced OC

**Module 2:** Role of PARP Inhibitor Maintenance in Newly Diagnosed Advanced OC

**Module 3:** Other Available and Investigational Novel Strategies for OC

**Module 4:** Current and Future Role of Mirvetuximab Soravtansine in OC Treatment

## Clinical Scenario

**A patient with advanced OC undergoes resection, receives adjuvant carboplatin/paclitaxel and PARP inhibitor maintenance, experiences disease progression and then receives 2 subsequent lines of platinum-based chemotherapy. Her disease is now platinum resistant and has high FR $\alpha$  expression, and she is about to start treatment with mirvetuximab soravtansine.**

# Current and Potential Future Role of Mirvetuximab Soravtansine in Ovarian Cancer Treatment

Shannon N. Westin, MD, MPH

Professor

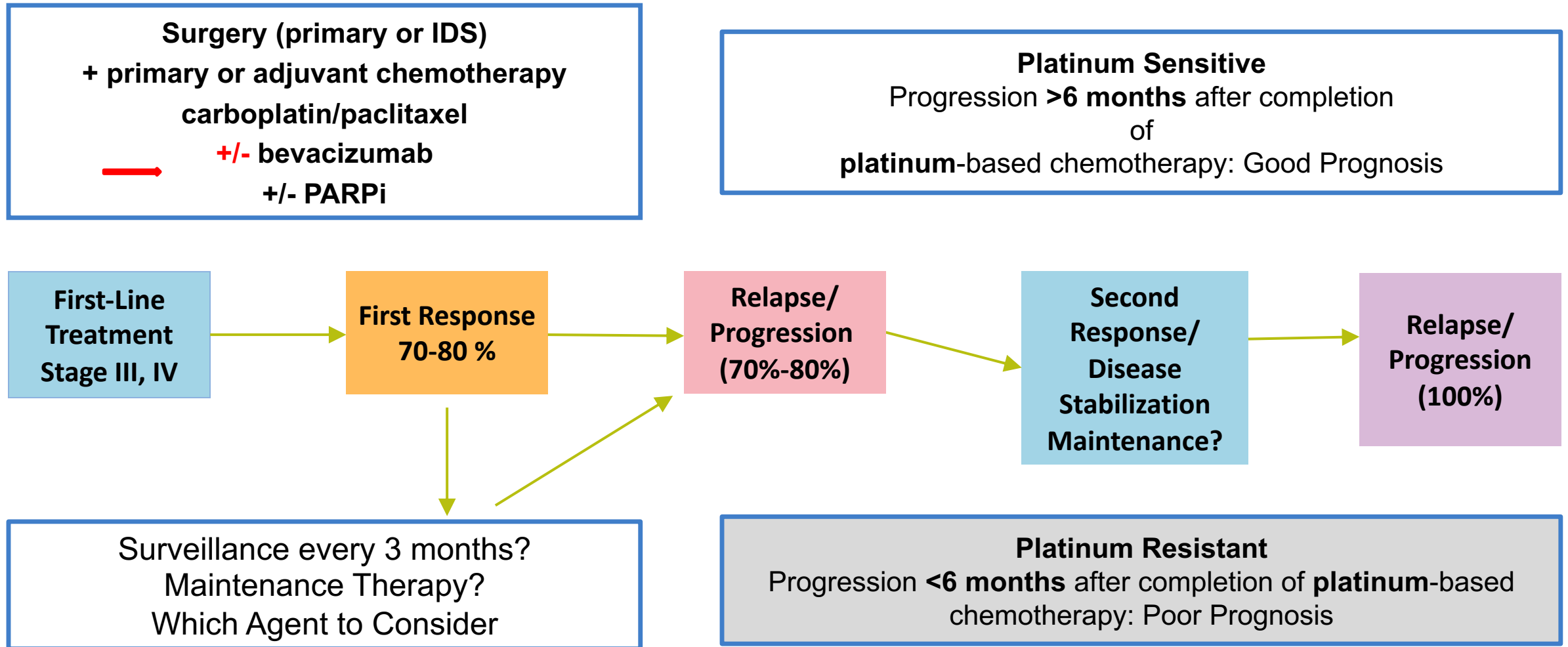
Department of Gynecologic Oncology and Reproductive Medicine



Making Cancer History®



# Typical Course of Advanced Ovarian Cancer



# Targeting Folate Receptor Alpha

- FR $\alpha$  is a cell surface folate receptor which mediates folate transport into epithelial cells.
- FR $\alpha$  expression is limited on normal cells, but is upregulated on cancers, primarily ovarian, but also endometrial, and triple negative breast
- FR $\alpha$  may be expressed on the alveoli of the lungs and on renal proximal tubules. However, these receptors are located on the surface of the cell facing the alveolar and tubular lumen, which reduces the exposure of the targets to circulating anti-folate agents
- Expression in ovarian cancer varies by histology (80-90%)
  - 76% HGS
  - 50% LGS
  - 32% clear cell
- Association with prognosis has been mixed

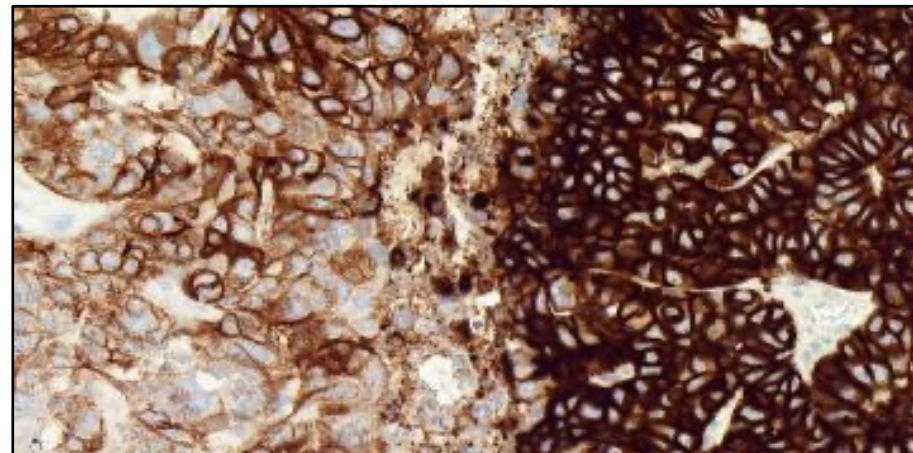
## PS2+ Scoring

Determined by staining intensity and percentage of tumor cells staining at 0, 1+, 2+, or 3+

1+ intensity

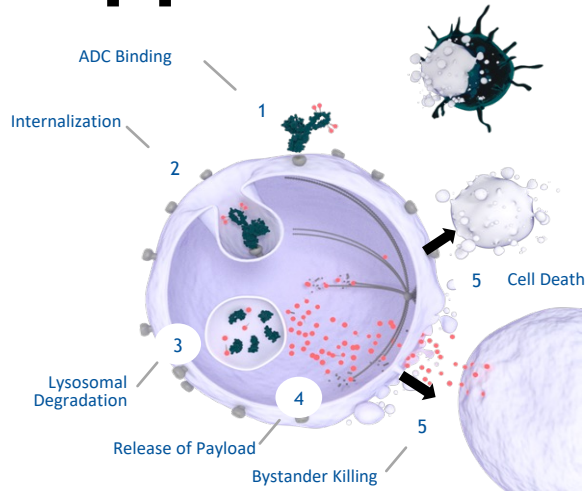
2+ intensity

3+ intensity



**PS2+ Scoring**  
Positive:  $\geq$  50% tumor cells with  $\geq$  2+ FR $\alpha$  membrane staining.

# Mirvetuximab soravtansine, first FR $\alpha$ -targeted ADC approved for PROC



Antibody-drug conjugate (ADC) comprising an FR $\alpha$ -binding antibody, cleavable linker, and a maytansinoid DM4 payload  
**SORAYA (NCT04296890)**

## Key eligibility criteria

- Platinum-resistant ovarian cancer
- Prior bevacizumab required, prior PARPi allowed
- 1–3 prior lines of therapy
- Patients with *BRCA* mutations allowed
- FR $\alpha$ -positive ( $\geq 75\%$  of cells staining positive with  $\geq 2+$  staining intensity)

**Mirvetuximab soravtansine (N=106)**  
6.0 mg/kg adjusted ideal body weight (AIBW) q3w

## Primary endpoint

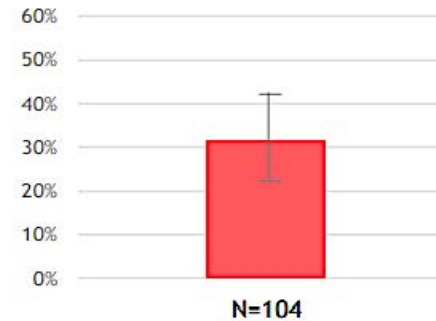
- ORR per Investigator

## Secondary endpoints

- DOR, PFS, OS, CA-125 response by GCIG criteria, safety

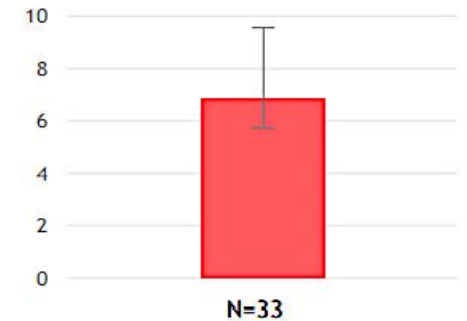
## ORR% BY INVESTIGATOR<sup>1</sup>

**31.7%**  
(22.9, 41.6)\*



## DOR BY INVESTIGATOR<sup>1</sup>

**6.9 months**  
95% CI: (5.6, 9.7)



**FDA grants accelerated approval to mirvetuximab soravtansine-gynx for FR $\alpha$  positive, platinum-resistant epithelial ovarian, fallopian tube, or peritoneal cancer**

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On November 14, 2022, the Food and Drug Administration granted accelerated approval to mirvetuximab soravtansine-gynx (Elahere, ImmunoGen, Inc.) for adult patients with folate receptor alpha (FR $\alpha$ ) positive, platinum-resistant epithelial ovarian, fallopian tube, or primary peritoneal cancer, who have received one to three prior systemic treatment regimens. Mirvetuximab soravtansine-gynx is a folate receptor alpha directed antibody and microtubule inhibitor conjugate. Patients are selected for therapy based on an FDA-approved test.

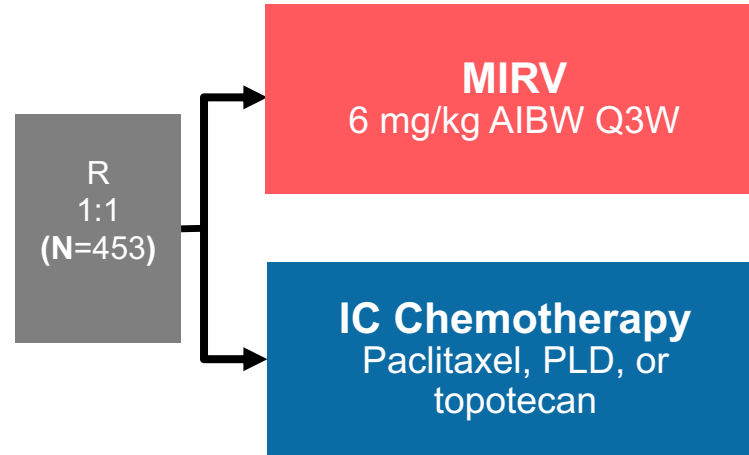
# MIRASOL (NCT04209855): Randomized, phase 3 study of MIRV vs chemotherapy in FR $\alpha$ -high platinum-resistant ovarian cancer

## Eligible patients:

- PROC (PFI  $\leq$  6 mo)
- FR $\alpha$  detected by IHC with PS2+ among  $\geq$  75% of viable tumor cells
- High-grade serous histology
- 1–3 prior lines of therapy
- Prior BEV and PARPi allowed
- Participants with *BRCA* mutations allowed

## Excluded patients:

- 1<sup>o</sup> platinum-refractory disease (primary PFI < 3 mo)



## Stratification:

- IC chemotherapy: paclitaxel, PLD, or topotecan
- Prior lines of therapy: 1 vs 2 vs 3

## Primary endpoint<sup>a</sup>:

- PFS by INV (BICR sensitivity analysis)

## Select secondary endpoints:

- ORR by INV (BICR sensitivity analysis)
- OS OV28 abdominal/GI subscale<sup>b</sup>
- Safety and tolerability
- DOR
- CA-125 response<sup>c</sup>
- PFS2

## ITT population:

- All randomized patients, regardless of receipt of assigned treatment

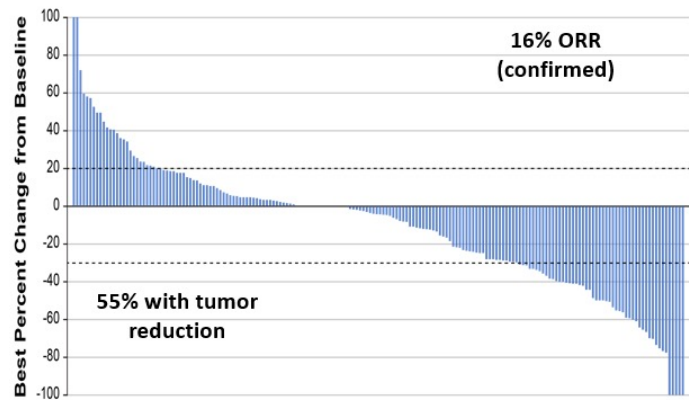
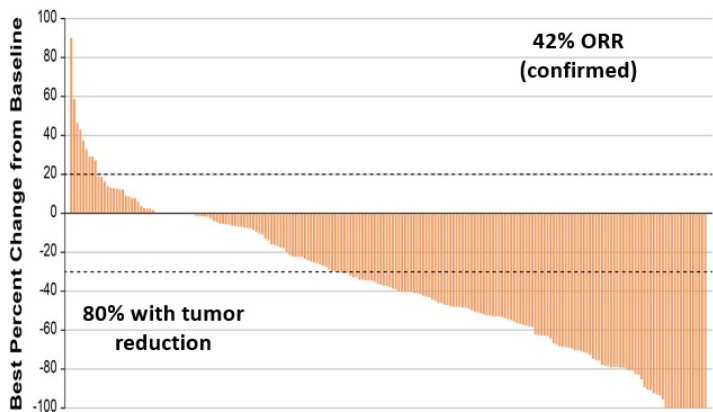
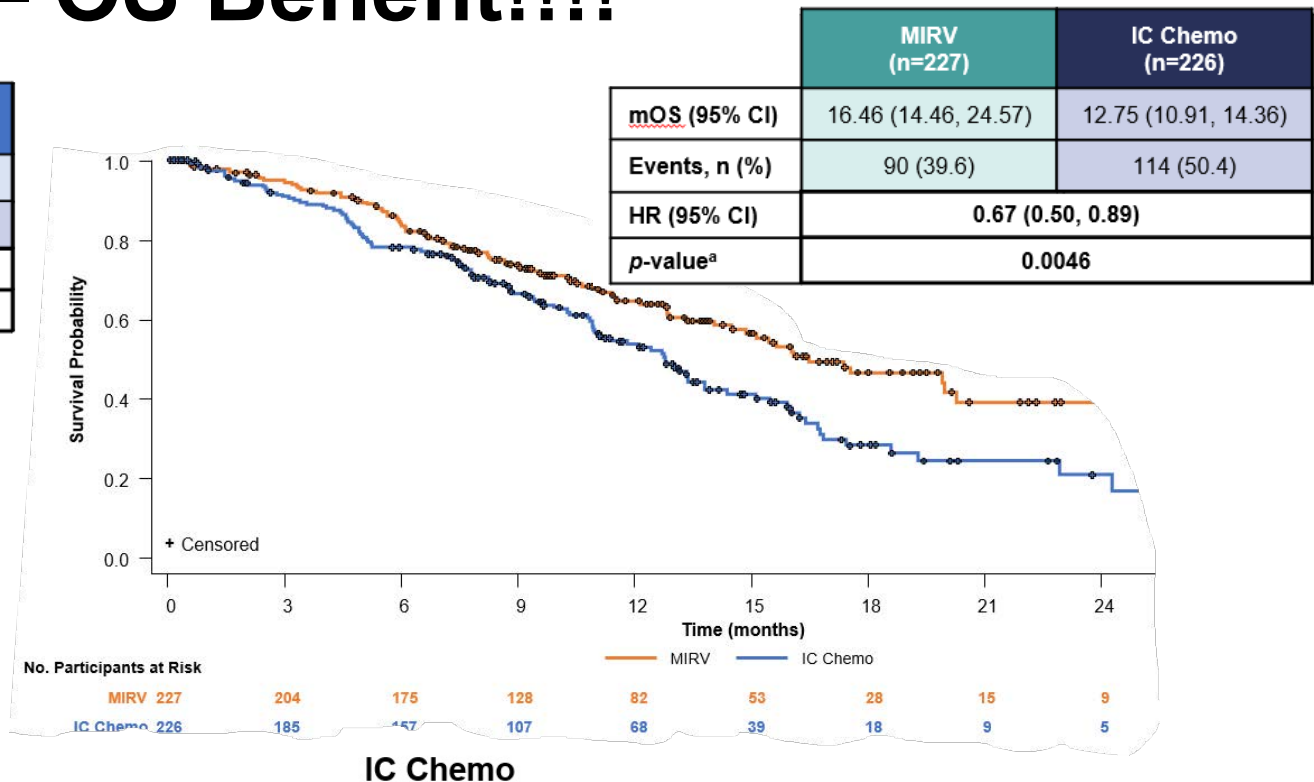
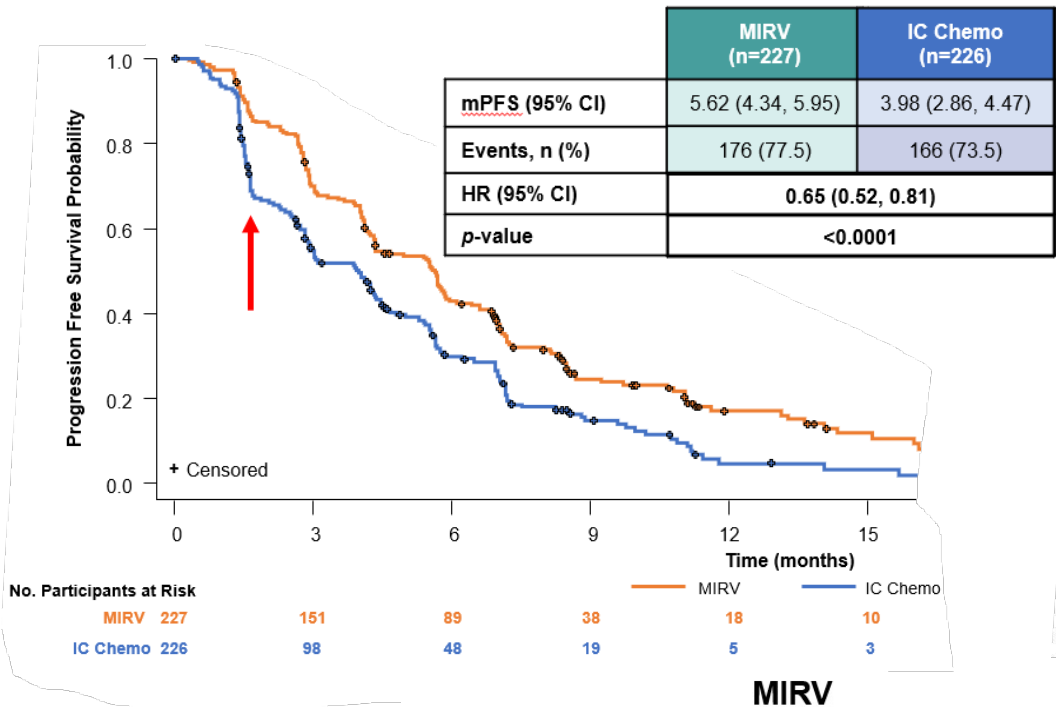
## Select exploratory:

- Additional PRO assessments<sup>d</sup>

## Safety population:

- All randomized patients who received  $\geq$  1 dose of assigned treatment

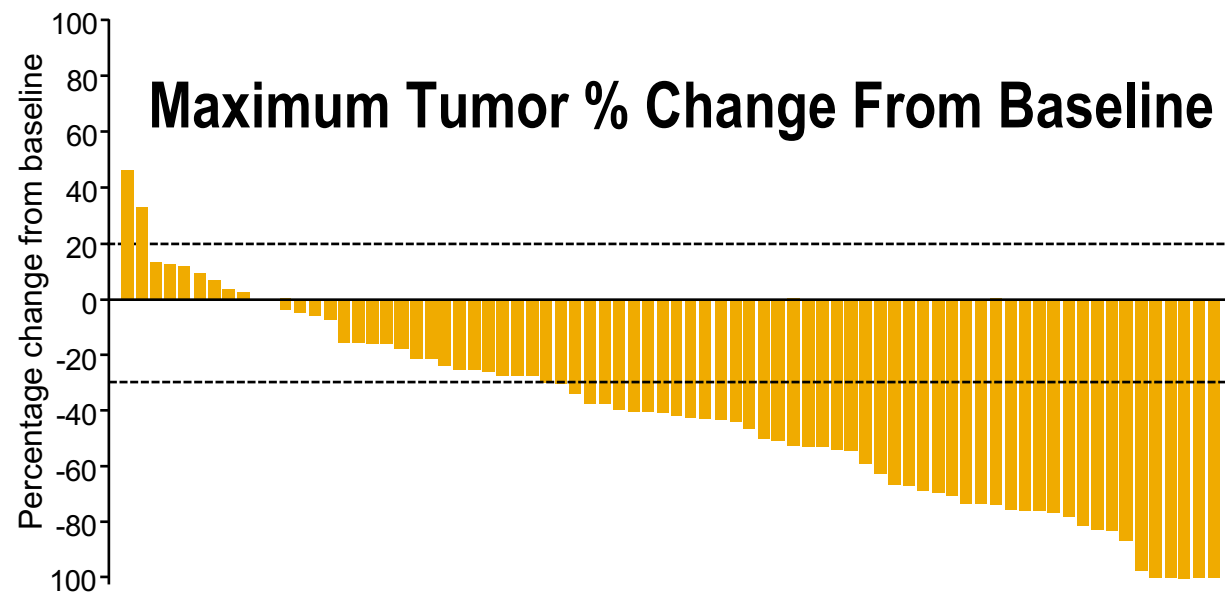
# Confirmation of Superiority – OS Benefit!!!!



# PICCOLO: Mirvetuximab soravtansine in platinum sensitive ovarian cancer

Characteristics	N=79
Age, median (range), years	66 (41-84)
Race, n (%)	
White	65 (82.3)
Black or African American	4 (5.1)
Asian	1 (1.3)
# prior lines of systemic therapy, n (%)	
1-2 <sup>a</sup>	49 (62.0)
≥3	30 (37.9)
Prior exposure to taxanes, n (%), Yes	77 (97.5)
Exposed in multiple lines	20 (25.3)
Prior exposure to PARPi <sup>b</sup> , n (%), Yes	64 (81.0)
Progression on PARPi <sup>c</sup>	59 (74.7)
Prior exposure to bev, n (%), Yes	51 (64.6)
Most recent PFI (months) <sup>d</sup> , n (%)	
≤12	43 (54.4)
>12	34 (43.0)

Alvarez Secord; Ann Oncol 2025

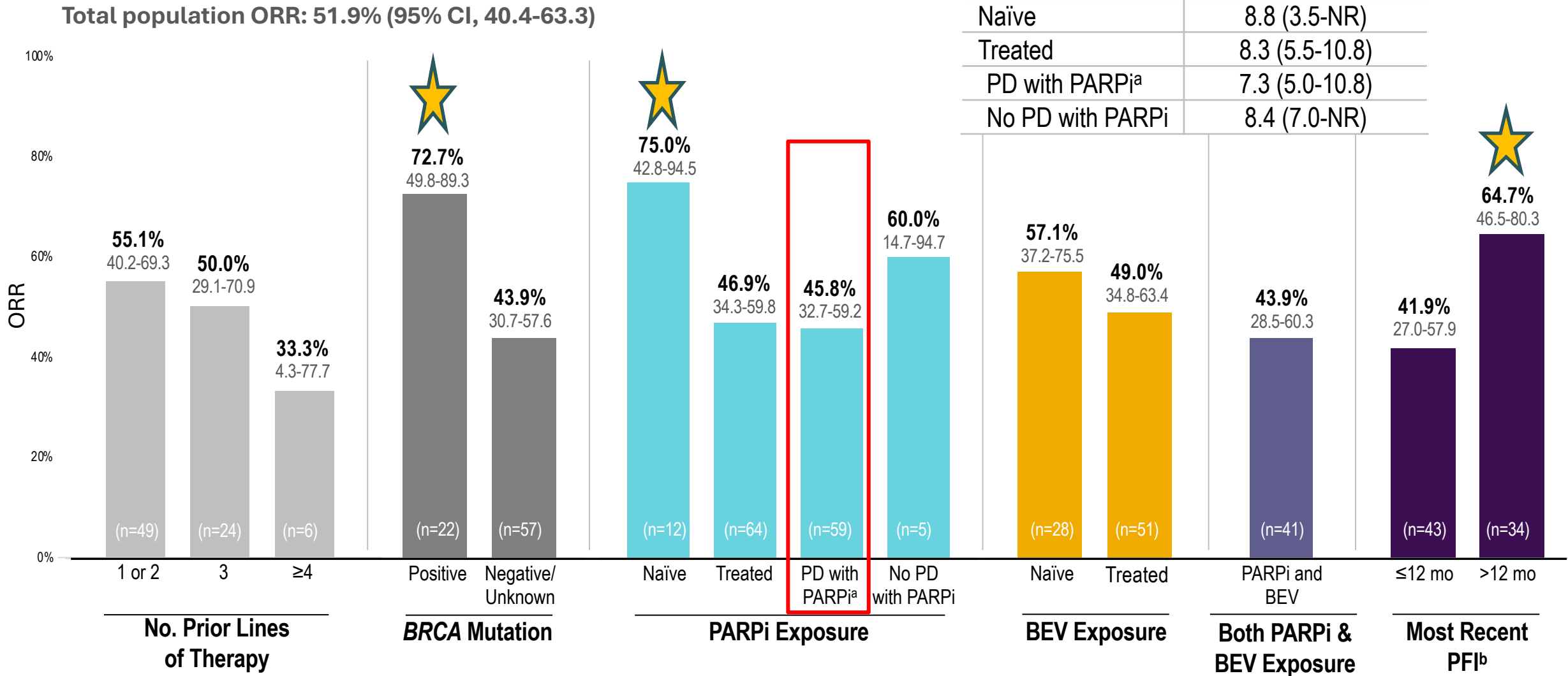


Primary Endpoint	N=79
ORR, n (%)	41 (51.9)
95% CI	40.4-63.3
Best Response, n (%)	
CR	6 (7.6)
PR	35 (44.3)
SD	29 (36.7)
PD	7 (8.9)
Not evaluable	2 (2.5)

Secondary Endpoints	
Median DOR <sup>a</sup>	n=41
Months (95% CI)	8.25 (5.6-10.8)
Median PFS	N=79
Months (95% CI)	6.93 (5.8-9.6)

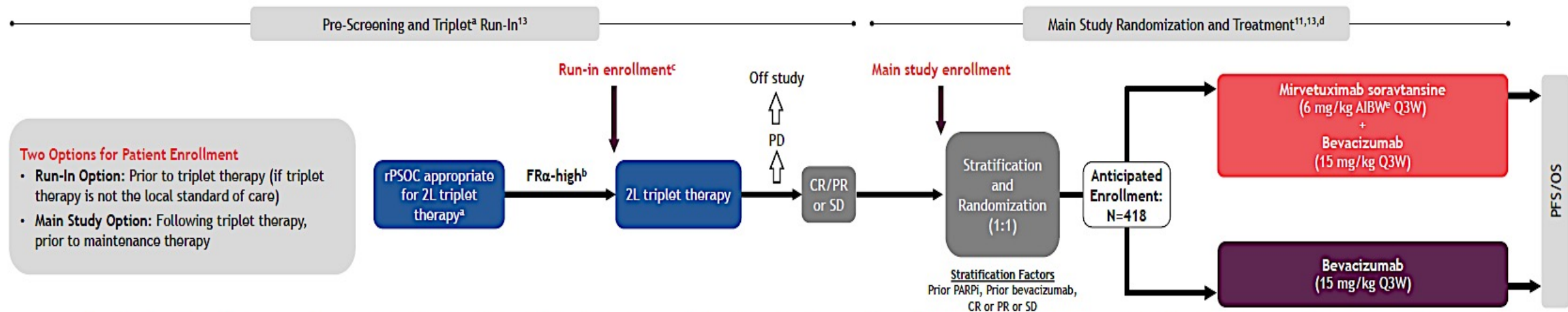


# PICCOLO: Subgroup Analyses



# GOG-3078/IMGN853-0421/GLORIOSA

## Randomized Phase 3 Trial for Mirvetuximab + Bevacizumab Maintenance in FR $\alpha$ -high Platinum Sensitive Ovarian Cancer



<sup>a</sup>Triplet treatment consists of platinum+chemotherapy+bevacizumab for planned 6 cycles (minimum 4 and maximum 8 cycles), including at least 3 cycles of bevacizumab. <sup>b</sup>Pre-screening consent must be obtained for tissue testing for FR $\alpha$  expression by Ventana FOLR1 Assay. <sup>c</sup>FR $\alpha$ -high patients who desire to be treated and followed while on their run-in triplet therapy must sign a run-in consent as part of the main consent form if they meet eligibility criteria as assessed by the investigator. <sup>d</sup>Maintenance treatment must begin  $\leq 12$  weeks from last dose of triplet therapy and within 30 days of randomization. Treatment continues until PD, unacceptable toxicity, withdrawal of consent, death, or sponsor study termination. <sup>e</sup>AIBW, also known as AdjBW, is calculated as IBW (kg) + 0.4 (actual weight - IBW). IBW for females is calculated as 0.9\*height (cm) - 92.



### Key Eligibility Criteria:

- Platinum-sensitive HGS ovarian cancer
- 1 prior platinum treatment
- Prior PARPi required if BRCA+
- CR, PR, or SD after treatment with platinum-based doublet + bevacizumab required

NCT05445778



# Roundtable Discussion

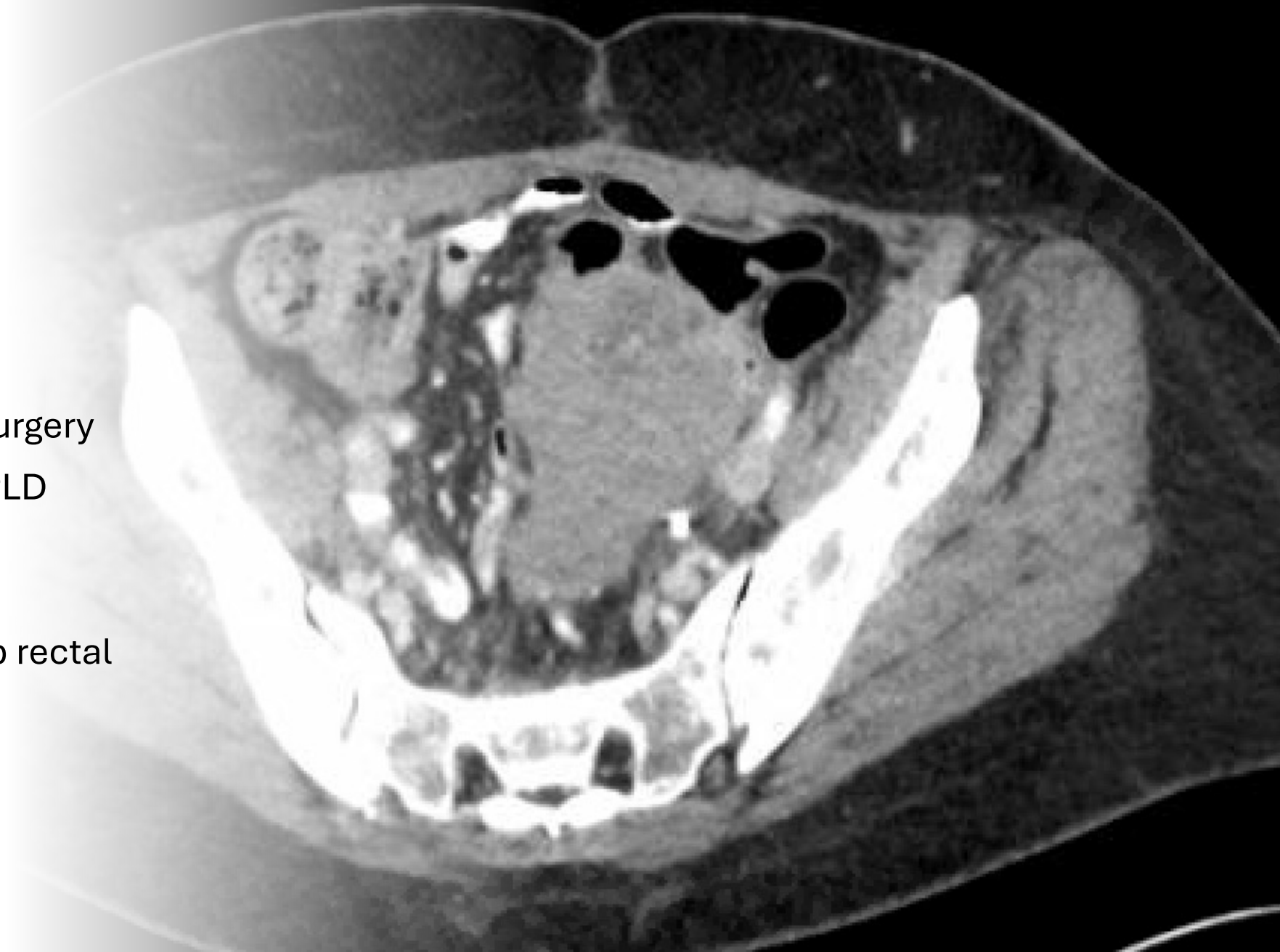
# **Nursing Considerations for Patients Receiving Mirvetuximab Soravtansine**

**Jennifer Filipi, MSN, NP**

Department of Gynecologic Oncology  
Massachusetts General Hospital Cancer Center  
Boston, Massachusetts

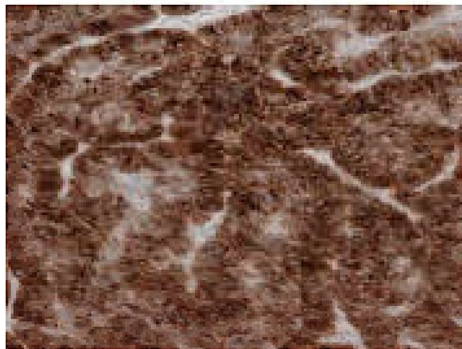
## 64-year-old new grandmother with platinum resistant ovarian cancer

- Diagnosed in 2019
- Negative genetics
- C/T and cytoreductive surgery
- Recurrence in 2021: C/PLD
- Recurrence in 2023: C/Gem/Bev
- Jan 2025: recurrence c/b rectal bleeding, hydronephrosis, significant pain



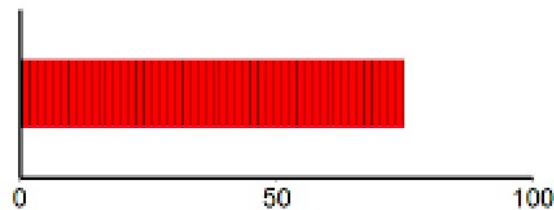
# Molecular testing

- Snapshot (in house molecular testing) with no actionable mutations
- HER2 negative (0)
- FOLR1 +



**FOLR1 FDA**  
MIRV for Ovarian  
Carcinoma: **POSITIVE**  
Percentage of Cells with  
2+ and/or 3+ Membrane  
Staining: 75%

**POSITIVE**



Reference Ranges	
Positive	$\geq 75\%$
Negative	$< 75\%$

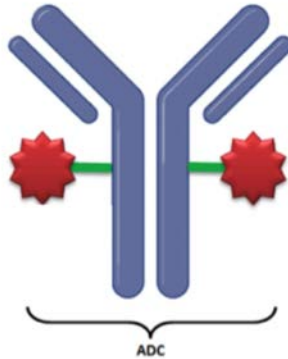




# Mirvetuximab

- Antibody drug conjugate

- 3 components
  - Antibody, linker, cytotoxic payload



- Targets folate receptor 1 (FOLR1) on surface of cancer cells

- Often present in ov ca cells; limited expression in normal cells
- Bystander effect

- Approved for platinum resistant ovarian cancer
- + expression = 75% or greater

# Mirvetuximab: Common Side Effects

- **Eye disorders:** Blurry vision, dry eyes, eye irritation, eye redness
- **Low blood cell counts**
- **Fatigue**
- **Nausea, vomiting**
  - Most common on the day(s) of chemotherapy and for 2-3 days afterwards
- **Diarrhea, constipation**
- **Liver enzyme elevations**
- **Peripheral neuropathy:**
  - Numbness, tingling (“pins and needles”), or burning sensations in the hands and/or feet
    - If you already have neuropathy when you start this treatment, it may get worse

# Mirvetuximab: Rare but Serious Side Effects

- **Infusion related/hypersensitivity reactions**
  - This reaction is most common with the first infusion and the risk for it after the first infusion significantly declines
- **Inflammation of the lungs**
  - If you experience unexplainable symptoms consisting of but not limited to dry cough, shortness of breath, or difficulty breathing then report it to your oncologist





# Eye Care During Treatment

- To decrease risk of visual complications, you will be required to:
  - Have an eye examination (visual acuity and slit lamp) done **prior** to your first infusion
  - Have follow-up eye exams before **every other dose** of mirvetuximab soravtansine during the first 8 treatment cycles, then as directed by your provider
  - Administer **preservative free artificial tears** in each eye at least four times a day, starting with the first treatment and continuing until the end of treatment
  - Administer **corticosteroid eye drops** in each eye starting the day prior to and on days 1 to 8 of each treatment cycle, starting with the first cycle and continuing until the end of treatment
  - Avoid the use of contact lenses
  - Use caution when driving or operating heavy machinery
  - Wear sunglasses when outdoors because your eyes may become more sensitive to sunlight during treatment with mirvetuximab soravtansine
  - If you experience eye toxicity, your oncologist may hold (temporarily stop) this medication until your condition improves

## Home medications

- **Corticosteroid eye drops:** Instill the number of drops shown below starting the **day prior** to each treatment cycle and continue use for only the first **eight days** of each treatment cycle

Treatment Day	-1	1	2	3	4	5	6	7	8
Number of eye drops <b>per eye per day</b>	Six					Four			

- **Artificial tears** (preservative free): Instill 1 drop into each eye (waiting at least 10 minutes after administration of dexamethasone eye drops) four times a day **during the treatment period**

# Back to our case...

- 3 cycles later, complete resolution of rectal bleeding and pain
- CA125 decreasing
- Mild blurred vision with changes on eye exam.
  - Management: ophthalmologist visit, held x1 week
  - Lower dose by one dose level
- Eye toxicity resolved
- Continues to tolerate well



# Roundtable Discussion

# **Understanding the Current Paradigm and New Approaches in the Care of Patients with Cancer**

*A Complimentary NCPD Hybrid Symposium Series Held During the 50<sup>th</sup> Annual ONS Congress*

## **Pancreatic Cancer**

**Friday, April 11, 2025**

**6:00 PM – 7:30 PM**

### **Faculty**

**Farshid Dayyani, MD, PhD**

**Caroline Kuhlman, MSN, APRN-BC**

**Philip A Philip, MD, PhD**

**Amanda K Wagner, APRN-CNP, AOCNP**

### **Moderator**

**Neil Love, MD**

*Thank you for joining us! Please take a moment to complete the survey currently up on Zoom. Your feedback is very important to us. The survey will remain open up to 5 minutes after the meeting ends.*

***To Claim NCPD Credit***

*In-person attendees: Please refer to the program syllabus for the NCPD credit link or QR code.*

*Virtual attendees: The NCPD credit link is posted in the chat room.*

*NCPD/ONCC credit information will be emailed to each participant within 1 to 2 business days.*