

**Thank you for joining us.  
The program will commence momentarily.**

# Exploring the Role of Immune Checkpoint Inhibitor Therapy and Other Novel Strategies in Gynecologic Cancers

## *A Meet The Professor Series*

**Professor Ignace Vergote**

Chairman, Department of Obstetrics and Gynaecology

Gynaecological Oncologist

Leuven Cancer Institute

University Hospital Leuven

Leuven, Belgium

## Commercial Support

These activities are supported by educational grants from Eisai Inc, Merck, Seattle Genetics and Tesaro, A GSK Company.

## Dr Love — Disclosures

**Dr Love** is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following commercial interests: AbbVie Inc, Acerta Pharma — A member of the AstraZeneca Group, Adaptive Biotechnologies Corporation, Agendia Inc, Agios Pharmaceuticals Inc, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Biodesix Inc, bioTheranostics Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Boston Biomedical Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Daiichi Sankyo Inc, Dendreon Pharmaceuticals Inc, Eisai Inc, EMD Serono Inc, Exelixis Inc, Foundation Medicine, Genentech, a member of the Roche Group, Genmab, Genomic Health Inc, Gilead Sciences Inc, GlaxoSmithKline, Grail Inc, Guardant Health, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Infinity Pharmaceuticals Inc, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Kite, A Gilead Company, Lexicon Pharmaceuticals Inc, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Merck, Merrimack Pharmaceuticals Inc, Myriad Genetic Laboratories Inc, Natera Inc, Novartis, Oncoceptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Prometheus Laboratories Inc, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sandoz Inc, a Novartis Division, Sanofi Genzyme, Seattle Genetics, Sirtex Medical Ltd, Spectrum Pharmaceuticals Inc, Taiho Oncology Inc, Takeda Oncology, Tesaro, A GSK Company, Teva Oncology, Tokai Pharmaceuticals Inc, Tolero Pharmaceuticals and Verastem Inc.

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

# Prof Vergote — Disclosures

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## Upcoming Live Webinars

**Friday, September 4, 2020  
12:00 PM – 1:00 PM ET**

**Optimizing the Selection and  
Sequencing of Therapy for  
Patients with Chronic  
Lymphocytic Leukemia**

**Faculty**

Kerry Rogers, MD

**Moderator**

Neil Love, MD

**Friday, September 11  
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**Clinical Investigator Perspectives  
on the Current and Future Role  
of PARP Inhibition in the  
Management of Ovarian Cancer**

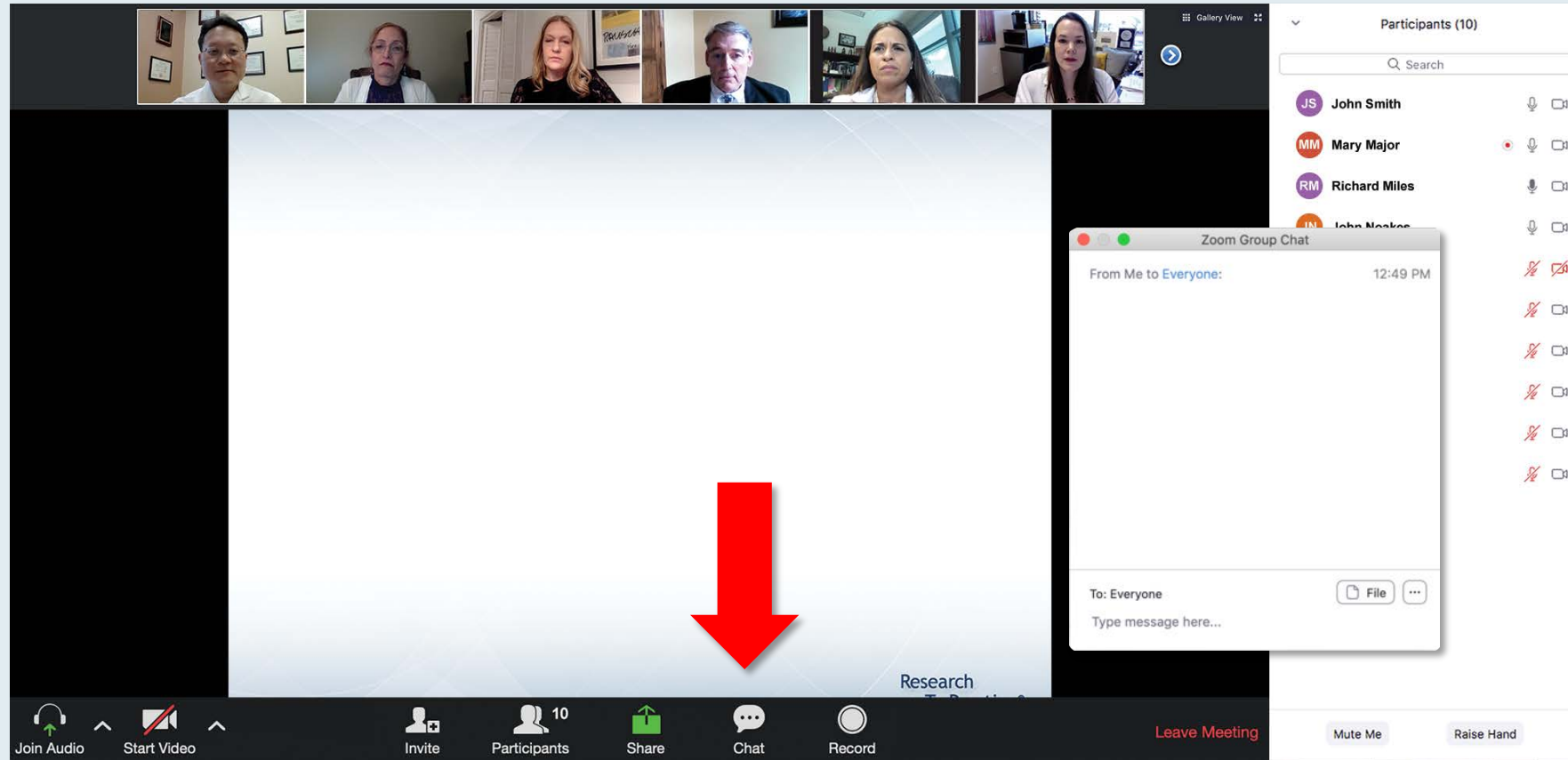
**Faculty**

Robert L Coleman, MD

**Moderator**

Neil Love, MD

# We Encourage Clinicians in Practice to Submit Questions



**Feel free to submit questions now before the program commences and throughout the program.**



# Familiarizing Yourself with the Zoom Interface

## How to answer poll questions

The screenshot displays a Zoom meeting interface. At the top, a gallery view shows six participants. The main screen displays a poll question: "What is your usual treatment recommendation for a patient with MM who has been followed by ASCT for 1-5 years who then experiences an asymptomatic relapse?". Below the question is a list of ten treatment options, each preceded by a number. A "Quick Poll" window is open, showing the same list of options with radio buttons for selection. The options are:

1. Carfilzomib +/- dexamethasone
2. Pomalidomide +/- dexamethasone
3. Carfilzomib + pomalidomide +/- dexamethasone
4. Elotuzumab + lenalidomide +/- dexamethasone
5. Elotuzumab + pomalidomide +/- dexamethasone
6. Daratumumab + lenalidomide +/- dexamethasone
7. Daratumumab + pomalidomide +/- dexamethasone
8. Daratumumab + bortezomib +/- dexamethasone
9. Ixazomib + Rd
10. Other

At the bottom of the screen, the Zoom toolbar is visible, including buttons for "Join Audio", "Start Video", "Invite", "Participants" (showing 10), "Share", "Chat", "Record", and "Leave Meeting". On the right side, a "Participants (10)" list is shown, listing names and their status (e.g., muted, video off).

When a poll question pops up, click your answer choice from the available options.  
Results will be shown after everyone has answered.

***Thank you for joining us!***

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

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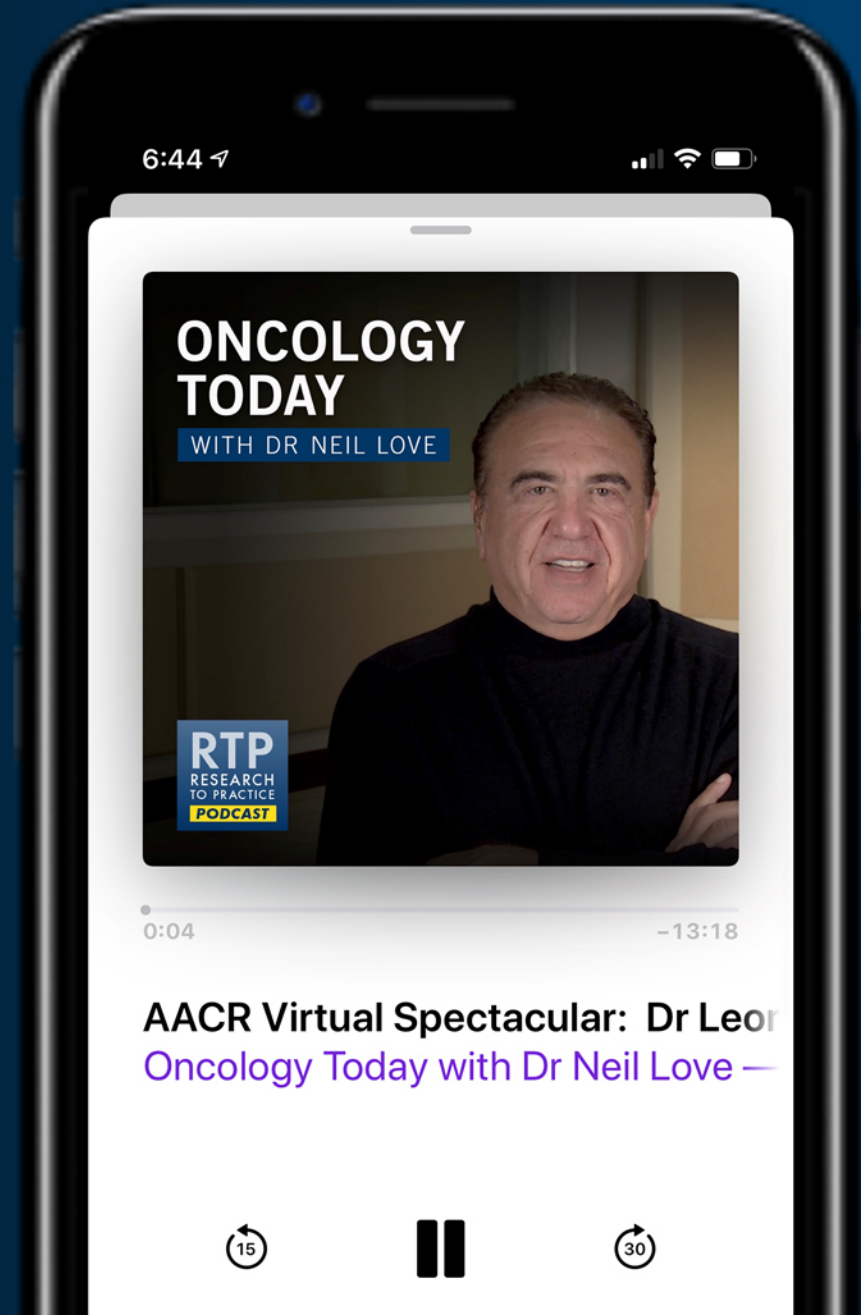
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# *Meet The Professor Program Participating Faculty*



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



**Ana Oaknin, MD, PhD**  
Head of Gynaecologic Cancer Programme  
Vall d'Hebron Institute of Oncology  
Hospital Universitari Vall d'Hebron  
Vall d'Hebron Barcelona Hospital Campus  
Barcelona, Spain



**Robert L Coleman, MD**  
Chief Scientific Officer  
US Oncology Research  
Gynecologic Oncology  
McKesson  
The Woodlands, Texas



**David M O'Malley, MD**  
Professor  
Division Director, Gynecologic Oncology  
Co-Director, Gyn Oncology Phase I Program  
The Ohio State University and The James  
Cancer Center  
Columbus, Ohio

# *Meet The Professor Program Participating Faculty*



**Richard T Penson, MD, MRCP**  
Associate Professor of Medicine  
Harvard Medical School  
Clinical Director, Medical Gynecologic Oncology  
Massachusetts General Hospital  
Boston, Massachusetts



**Krishnansu S Tewari, MD**  
Professor and Division Director  
Division of Gynecologic Oncology  
University of California, Irvine  
Irvine, California



**Matthew A Powell, MD**  
Professor and Chief  
Division of Gynecologic Oncology  
Washington University School of Medicine  
St Louis, Missouri



**Professor Ignace Vergote**  
Chairman, Department of Obstetrics and  
Gynaecology  
Gynaecological Oncologist  
Leuven Cancer Institute  
University Hospital Leuven  
Leuven, Belgium



**Brian M Slomovitz, MD**  
Professor, Department of Obstetrics  
and Gynecology  
Florida International University  
Miami, Florida

# *Meet The Professor* Program Moderator



***Project Chair***

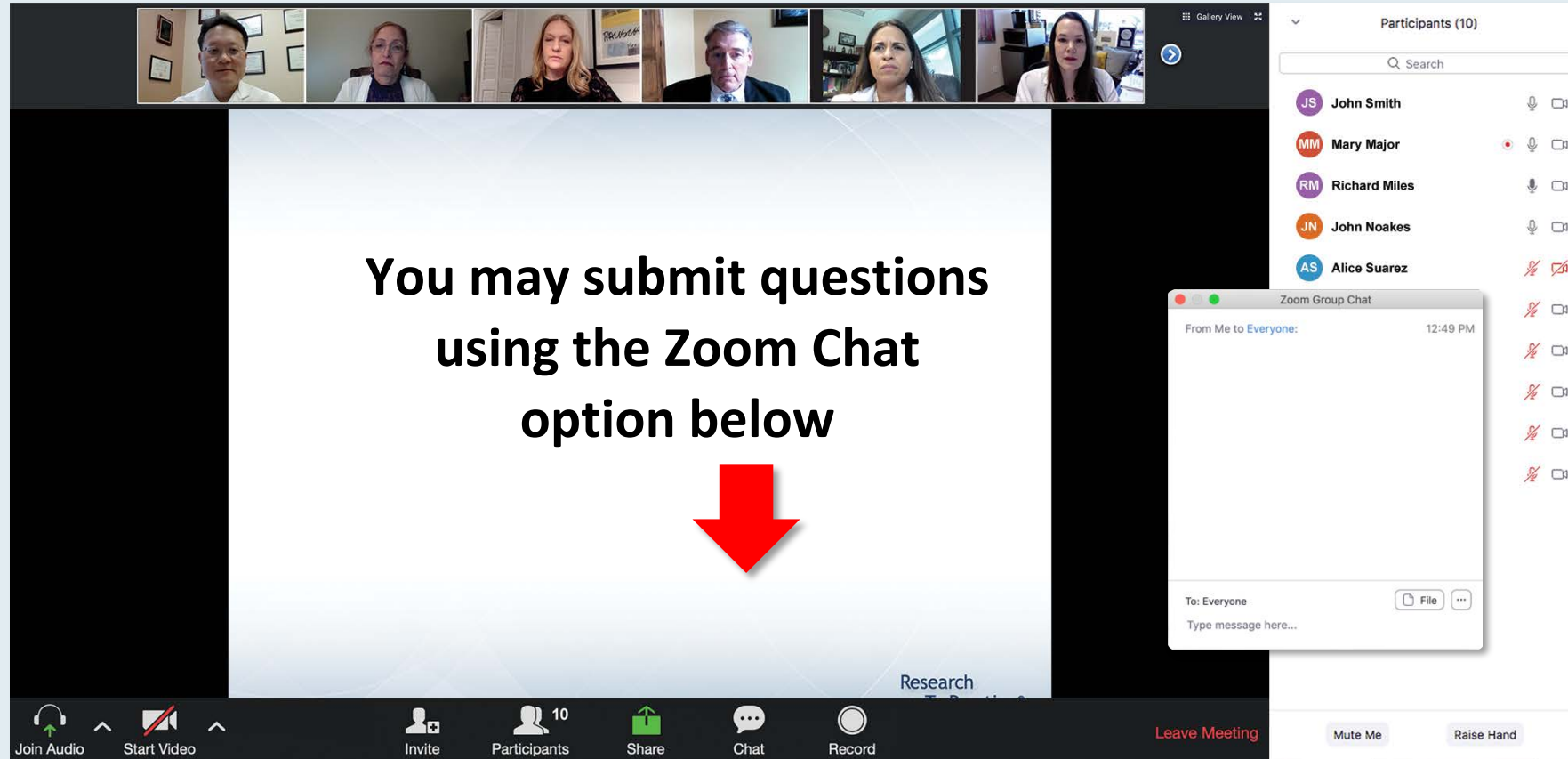
**Neil Love, MD**

Research To Practice

Miami, Florida



# We Encourage Clinicians in Practice to Submit Questions



The screenshot displays a Zoom meeting interface. At the top, a gallery view shows six participants. The main screen displays a presentation slide with the text: "You may submit questions using the Zoom Chat option below". A large red arrow points downwards from this text. On the right side, a "Participants (10)" list is visible, showing names like John Smith, Mary Major, Richard Miles, John Noakes, and Alice Suarez. Below the participants list, a "Zoom Group Chat" window is open, showing a message from "Me to Everyone" at 12:49 PM. The bottom toolbar includes icons for "Join Audio", "Start Video", "Invite", "Participants", "Share", "Chat", and "Record". A "Leave Meeting" button is also present.

Feel free to submit questions now before the program commences and throughout the program.



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What is your usual treatment recommendation for a patient with MM followed by ASCT 1-3 years who then experiences an asy... clinical relapse?

Quick Poll

- ☐ Carfilzomib +/- dexamethasone
- ☐ Pomalidomide +/- dexamethasone
- ☐ Carfilzomib + pomalidomide +/- dexamethasone
- ☐ Elotuzumab + lenalidomide +/- dexamethasone
- ☐ Elotuzumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + lenalidomide +/- dexamethasone
- ☐ Daratumumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + bortezomib +/- dexamethasone
- ☐ Ixazomib + Rd
- ☐ Other

Submit

Co-provided by USFHealth Research To Practice®

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

When a poll question pops up, click your answer choice from the available options. Results will be shown after everyone has answered.

# ONCOLOGY TODAY

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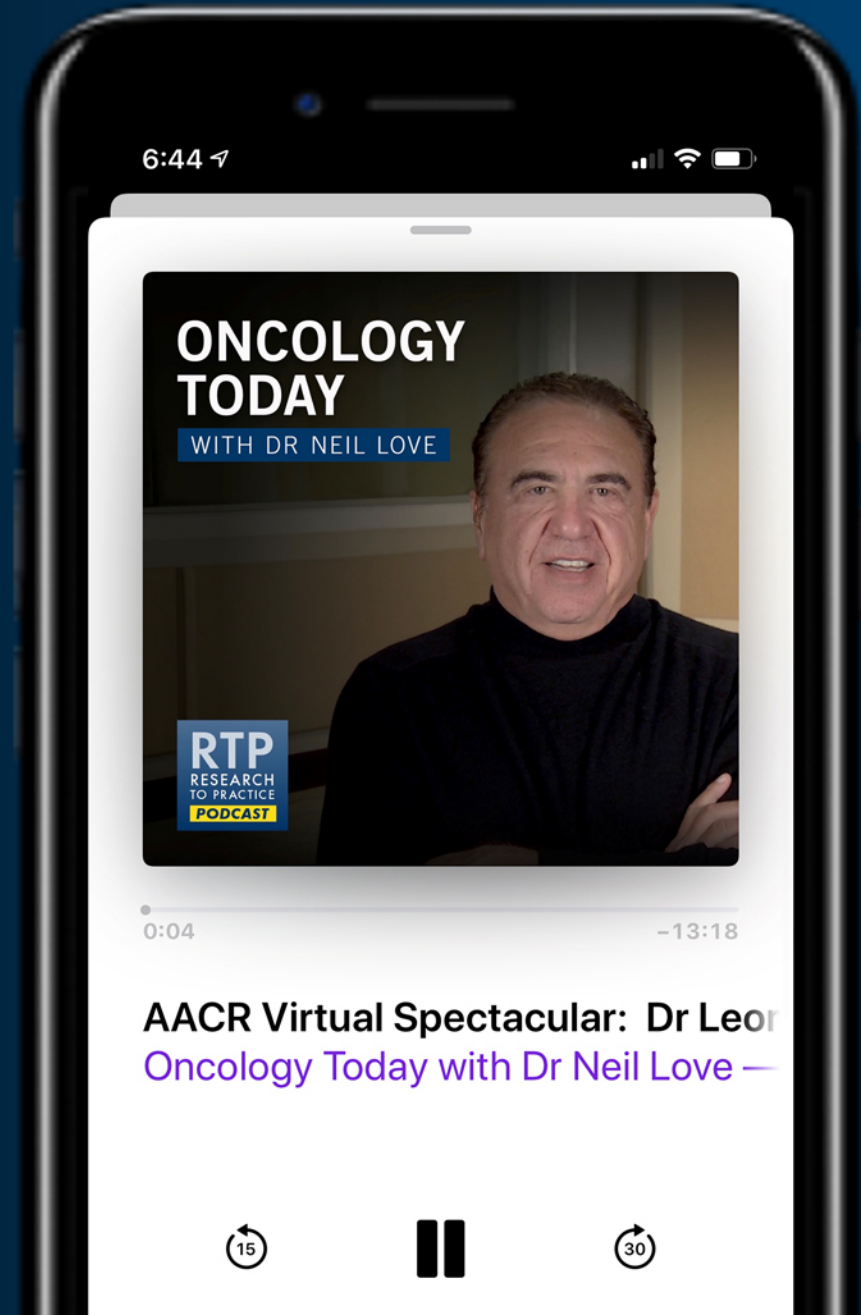
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# Optimizing the Selection and Sequencing of Therapy for Patients with Chronic Lymphocytic Leukemia

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**Faculty**

**Kerry Rogers, MD**

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# Exploring the Role of Immune Checkpoint Inhibitor Therapy and Other Novel Strategies in Gynecologic Cancers

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**Professor Ignace Vergote**

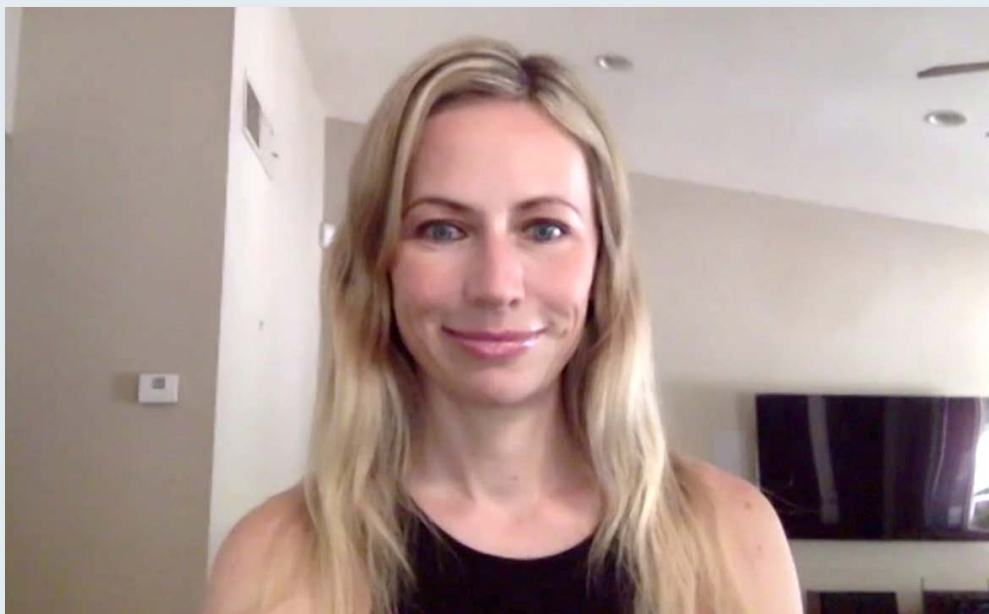
Chairman, Department of Obstetrics and Gynaecology

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Leuven Cancer Institute

University Hospital Leuven

Leuven, Belgium



**Lyndsay J Willmott, MD**

Assistant Professor

Division of Gynecologic Oncology

Creighton University School of Medicine at

Dignity Health St Joseph's Hospital and Medical Center

Assistant Professor

University of Arizona

Arizona Oncology

The US Oncology Network

Phoenix, Arizona

# Meet The Professor with Prof Vergote

## MODULE 1: Cases from the Community – Dr Willmott

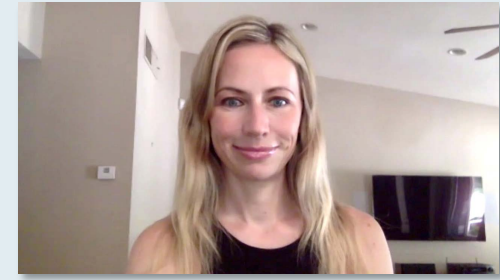
- A 56-year-old woman with recurrent endometrial cancer – MMR proficient, then deficient
- A 61-year-old woman with recurrent endometrial cancer – MMR deficient
- A 61-year-old woman with recurrent endometrial cancer – MMR proficient
- A 35-year-old woman with recurrent cervical cancer – PD-L1-positive

## MODULE 2: Beyond the Guidelines – Clinical Investigator Approaches to Common Clinical Scenarios

## MODULE 3: Key Recent Data Sets

- Pembrolizumab (KEYNOTE-158) or dostarlimab (GARNET) for MSI-H or dMMR endometrial cancer (EC)
- KEYNOTE-146: Pembrolizumab/lenvatinib for EC without MSI-H/dMMR; ongoing studies (KEYNOTE-775, LEAP-001)
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# Case Presentation – Dr Willmott: A 56-year-old woman with recurrent endometrial cancer – MMR proficient, then deficient



Lyndsay J Willmott, MD

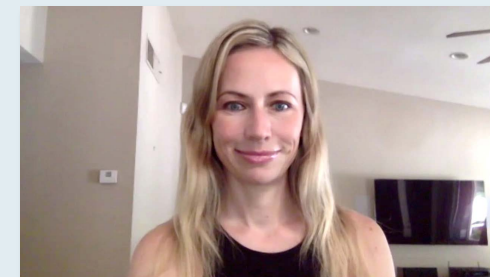
- Stage IA, grade 1 endometrioid adenocarcinoma of the uterus treated with initial surgery, no adjuvant therapy, MMR proficient
- Two years after initial diagnosis: Recurrent, grade 3 endometrioid adenocarcinoma, MMR deficient
- Adjuvant radiation, with regrowth of lesions approximately 6 months later
- Carboplatin/paclitaxel x 6, with slight progression of disease
- Pembrolizumab x 8 months (ongoing) and currently without evidence of disease

## Questions

- Has your hospital moved to universal testing of hysterectomy specimens for mismatch repair deficiency?
- Are you testing your patients who have recurrence again for mismatch repair deficiency?
- How are you sequencing your subsequent therapies for these patients if they have a recurrence?



# Case Presentation – Dr Willmott: A 61-year-old woman with recurrent endometrial cancer – MMR deficient



Lyndsay J Willmott, MD

- Stage IIIC1 endometrioid adenocarcinoma of the uterus
- Carboplatin/paclitaxel x 6 → disease recurrence
- Radiation therapy → PD 8 months later, MMR deficient
- Pembrolizumab x 16 cycles → significant diarrhea
  - GI assessment for immune-mediated colitis revealed PD
- Pembrolizumab subsequently discontinued

# Case Presentation – Dr Willmott: A 61-year-old woman with recurrent endometrial cancer – MMR proficient



Lyndsay J Willmott, MD

- Stage IA endometrioid adenocarcinoma of the uterus
- No adjuvant therapy given
- Three years later: Recurrent disease, MMR proficient
- Carboplatin/paclitaxel, with some disease response → prohibitive platinum allergy
- Pembrolizumab/Lenvatinib x 8 months (ongoing), with significant reduction in disease
  - Dose reduction of lenvatinib secondary to hypertension and thrombocytopenia

## Questions

- How are you dosing lenvatinib? I personally start at 20 mg and make dose reductions, but I'm curious if others are starting at lower doses and then perhaps dose escalating?
- For patients who are treated with lenvatinib, what are the toxicities that you're encountering most frequently? What measures are you utilizing to mitigate those side effects?

# Case Presentation – Dr Willmott: A 35-year-old woman with recurrent cervical cancer – PD-L1-positive



Lyndsay J Willmott, MD

- Stage IIIC1 cervical cancer, treated with radical hysterectomy, bilateral pelvic lymphadenectomy → adjuvant radiation therapy plus cisplatin → NED x 2 years
- Recurrent, PD-L1-positive disease
- Carboplatin/paclitaxel/bevacizumab, with PD after 6 cycles
- Pembrolizumab, with PD after 4 cycles and brain mets
- Palliative radiation and subsequent transition to hospice

## Questions

- How often are you seeing PD-L1 positivity in your cervical cancer patients?
- For patients who are recurrent after prior radiation plus cisplatin, what triple regimen are you selecting? Are you using carboplatin instead of cis, or are you using cisplatin as per GOG 240?
- For those patients who are PD-L1 positive, what response are you seeing to pembrolizumab?

## Questions and Comments: Dosing of pembrolizumab



**Lyndsay J Willmott, MD**

**Questions and Comments: Tisotumab vedotin – QoL, ocular toxicity; HER2 testing for patients with uterine serous carcinoma, experience with trastuzumab? Trastuzumab deruxtecan?**



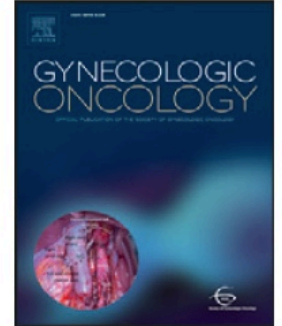
**Lyndsay J Willmott, MD**



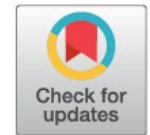
Contents lists available at ScienceDirect

## Gynecologic Oncology

journal homepage: [www.elsevier.com/locate/ygyno](http://www.elsevier.com/locate/ygyno)



### Second-line lenvatinib in patients with recurrent endometrial cancer☆☆☆



Ignace Vergote<sup>a,\*</sup>, Matthew A. Powell<sup>b</sup>, Michael G. Teneriello<sup>c</sup>, David S. Miller<sup>d</sup>, Agustin A. Garcia<sup>e</sup>, Olga N. Mikheeva<sup>f</sup>, Mariusz Bidzinski<sup>g</sup>, Cristina Ligia Cebotaru<sup>h</sup>, Corina E. Dutcus<sup>i</sup>, Min Ren<sup>i</sup>, Tadashi Kadowaki<sup>j,1</sup>, Yasuhiro Funahashi<sup>j</sup>, Richard T. Penson<sup>k</sup>



## Summary of Treatment-Related Adverse Events

Parameter, n (%)	Lenvatinib (N = 133)	
Treatment-related TEAEs	116 (87)	
Grade $\geq 3$	78 (59)	
Serious adverse events	36 (27)	
Deaths <sup>a</sup>	3 (2)	
Treatment-related TEAEs leading to:		
Dose interruption	71 (53)	
Dose reduction	38 (29)	
Treatment discontinuation	24 (18)	
Treatment-related TEAEs by preferred term	Any grade	Grade $\geq 3$

# Meet The Professor with Prof Vergote

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- Emerging clinical data with tisotumab vedotin; ongoing innovaTV 205 study












**In general, what treatment would you recommend for a patient with microsatellite-stable metastatic endometrial cancer who experienced disease progression on carboplatin/paclitaxel?**

1. Cisplatin/doxorubicin
2. Carboplatin/docetaxel
3. Lenvatinib/pembrolizumab
4. Test for PD-L1 combined positive score (CPS) and administer pembrolizumab if 1% or higher
5. Pembrolizumab
6. Other chemotherapy
7. Other










**In general, what treatment would you recommend for a patient with MSI-high metastatic endometrial cancer who experienced disease progression on carboplatin/paclitaxel?**

1. Cisplatin/doxorubicin
2. Carboplatin/docetaxel
3. Lenvatinib/pembrolizumab
4. Pembrolizumab
5. Other chemotherapy
6. Other

**In general, what treatment would you recommend for a patient with metastatic endometrial cancer who experienced disease progression on carboplatin/paclitaxel if their disease was...**

		Microsatellite stable (MSS)	MSI high (MSI-H)
	MICHAEL J BIRRER, MD, PHD	Lenvatinib/pembrolizumab	Pembrolizumab
	ROBERT L COLEMAN, MD	Lenvatinib/pembrolizumab	Pembrolizumab
	ANA OAKNIN, MD, PHD	Lenvatinib/pembrolizumab	Dostarlimab
	DAVID M O'MALLEY, MD	Lenvatinib/pembrolizumab	Pembrolizumab
	RICHARD T PENSON, MD, MRCP	Lenvatinib/pembrolizumab	Pembrolizumab
	MATTHEW A POWELL, MD	Lenvatinib/pembrolizumab	Pembrolizumab
	BRIAN M SLOMOVITZ, MD	Lenvatinib/pembrolizumab	Pembrolizumab
	KRISHNANSU S TEWARI, MD	Lenvatinib/pembrolizumab	Pembrolizumab
	PROFESSOR IGNACE VERGOTE	Lenvatinib/pembrolizumab	Pembrolizumab

For a patient with MSI-high metastatic endometrial cancer, outside of a clinical trial setting and regulatory and reimbursement issues aside, what is the earliest point at which you would introduce an anti-PD-1/PD-L1 antibody? Which regimen would you generally use?

		Earliest timing	Regimen
	MICHAEL J BIRRER, MD, PHD	Second line	Pembrolizumab
	ROBERT L COLEMAN, MD	Second line	Pembrolizumab
	ANA OAKNIN, MD, PHD	Second line	Dostarlimab
	DAVID M O'MALLEY, MD	First line	Pembrolizumab
	RICHARD T PENSON, MD, MRCP	First line	Pembrolizumab
	MATTHEW A POWELL, MD	Second line	Pembrolizumab
	BRIAN M SLOMOVITZ, MD	Second line	Pembrolizumab
	KRISHNANSU S TEWARI, MD	Second line	Pembrolizumab
	PROFESSOR IGNACE VERGOTE	First line	Pembrolizumab

**In general, what would be your preferred first-line therapy for a patient with MSS metastatic cervical cancer who has received no prior systemic treatment?**



MICHAEL J BIRRER, MD, PHD

**Cisplatin/paclitaxel/bevacizumab**



ROBERT L COLEMAN, MD

**Cisplatin/paclitaxel/bevacizumab**



ANA OAKNIN, MD, PHD

**Carboplatin/paclitaxel**



DAVID M O'MALLEY, MD

**Cisplatin/paclitaxel/bevacizumab**



RICHARD T PENSON, MD, MRCP

**Cisplatin/paclitaxel/bevacizumab**



MATTHEW A POWELL, MD

**Cisplatin/paclitaxel/bevacizumab**



BRIAN M SLOMOVITZ, MD

**Cisplatin/paclitaxel/bevacizumab**



KRISHNANSU S TEWARI, MD






**Cisplatin/paclitaxel/bevacizumab**



PROFESSOR IGNACE VERGOTE

**Carboplatin/paclitaxel/bevacizumab**

**In general, what would be your preferred first-line therapy for a patient with MSS metastatic cervical cancer who experienced relapse 12 months after receiving cisplatin-based chemoradiation therapy for Stage IIIB disease?**

 MICHAEL J BIRRER, MD, PHD	Carboplatin/paclitaxel/bevacizumab
 ROBERT L COLEMAN, MD	Carboplatin/paclitaxel/bevacizumab
 ANA OAKNIN, MD, PHD	Cisplatin/paclitaxel/bevacizumab
 DAVID M O'MALLEY, MD	Carboplatin/paclitaxel/bevacizumab
 RICHARD T PENSON, MD, MRCP	Cisplatin/paclitaxel/bevacizumab
 MATTHEW A POWELL, MD	Carboplatin/paclitaxel/bevacizumab
 BRIAN M SLOMOVITZ, MD	Test for PD-L1 CPS and administer pembrolizumab if 1% or higher
 KRISHNANSU S TEWARI, MD	Carboplatin/paclitaxel/bevacizumab
 PROFESSOR IGNACE VERGOTE	Carboplatin/paclitaxel/bevacizumab

CPS = combined positive score

**In general, what would be your preferred second-line therapy for a patient with MSS metastatic cervical cancer who experiences disease progression on carboplatin/paclitaxel/bevacizumab?**

1. Other chemotherapy
2. Test for PD-L1 CPS and administer pembrolizumab if 1% or higher
3. Pembrolizumab
4. Other

**In general, what would be your preferred second-line therapy for a patient with MSS metastatic cervical cancer who experienced disease progression on carboplatin/paclitaxel/bevacizumab?**



MICHAEL J BIRRER, MD, PHD

**Pembrolizumab**



ROBERT L COLEMAN, MD

**Test for PD-L1 CPS and administer pembrolizumab if 1% or higher**



ANA OAKNIN, MD, PHD

**Anti-PD-1/PD-L1 antibody in general**



DAVID M O'MALLEY, MD

**Test for PD-L1 CPS and administer pembrolizumab if 1% or higher**



RICHARD T PENSON, MD, MRCP

**Test for PD-L1 CPS and administer pembrolizumab if 1% or higher**



MATTHEW A POWELL, MD

**Test for PD-L1 CPS and administer pembrolizumab if 1% or higher**



BRIAN M SLOMOVITZ, MD

**Test for PD-L1 CPS and administer pembrolizumab if 1% or higher**



KRISHNANSU S TEWARI, MD

**Test for PD-L1 CPS and administer pembrolizumab if 1% or higher**



PROFESSOR IGNACE VERGOTE

**Tisotumab vedotin**



**Do you generally evaluate microsatellite instability status in your patients with advanced ovarian cancer?**

1. Yes

2. No

# Do you generally evaluate microsatellite instability status in your patients with advanced ovarian cancer?



MICHAEL J BIRRER, MD, PHD

Yes



ROBERT L COLEMAN, MD

Yes



ANA OAKNIN, MD, PHD

No



DAVID M O'MALLEY, MD

Yes



RICHARD T PENSON, MD, MRCP

Yes



MATTHEW A POWELL, MD

Yes



BRIAN M SLOMOVITZ, MD

No



KRISHNANSU S TEWARI, MD

No



PROFESSOR IGNACE VERGOTE

No

**Based on your clinical experience and/or the published literature, how would you characterize the tolerability of tisotumab vedotin in the treatment of metastatic cervical cancer?**



MICHAEL J BIRRER, MD, PHD

**Well tolerated except for epistaxis**



ROBERT L COLEMAN, MD

**Similar to other single-agent chemotherapy**



ANA OAKNIN, MD, PHD

**Moderate toxicity**



DAVID M O'MALLEY, MD

**Reasonable toxicity**



RICHARD T PENSON, MD, MRCP

**Excited by it**



MATTHEW A POWELL, MD

**Reasonable toxicity**



BRIAN M SLOMOVITZ, MD

**Well tolerated; ocular side effects**



KRISHNANSU S TEWARI, MD

**Relatively well tolerated so far**



PROFESSOR IGNACE VERGOTE

**Good tolerability**

**A patient with PD-L1-positive metastatic cervical cancer experiences disease progression on platinum-based therapy and has significant symptoms from her disease. If tisotumab vedotin were approved, what would likely be your next line of treatment?**

1. Pembrolizumab
2. Tisotumab vedotin
3. Other

# Meet The Professor with Prof Vergote

## MODULE 1: Cases from the Community – Dr Willmott

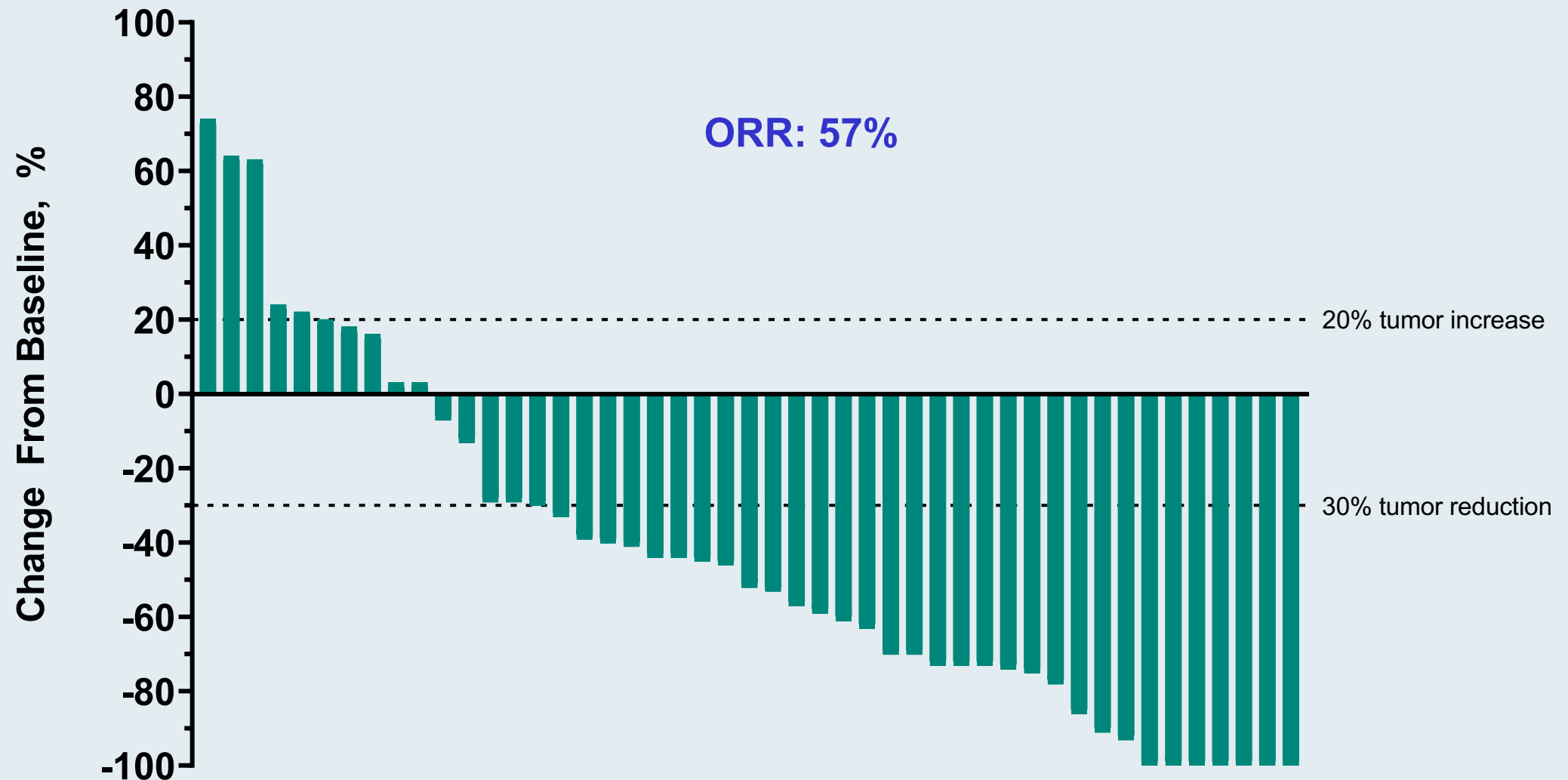
- A 56-year-old woman with recurrent endometrial cancer – MMR proficient, then deficient
- A 61-year-old woman with recurrent endometrial cancer – MMR deficient
- A 61-year-old woman with recurrent endometrial cancer – MMR proficient
- A 35-year-old woman with recurrent cervical cancer – PD-L1-positive

## MODULE 2: Beyond the Guidelines – Clinical Investigator Approaches to Common Clinical Scenarios

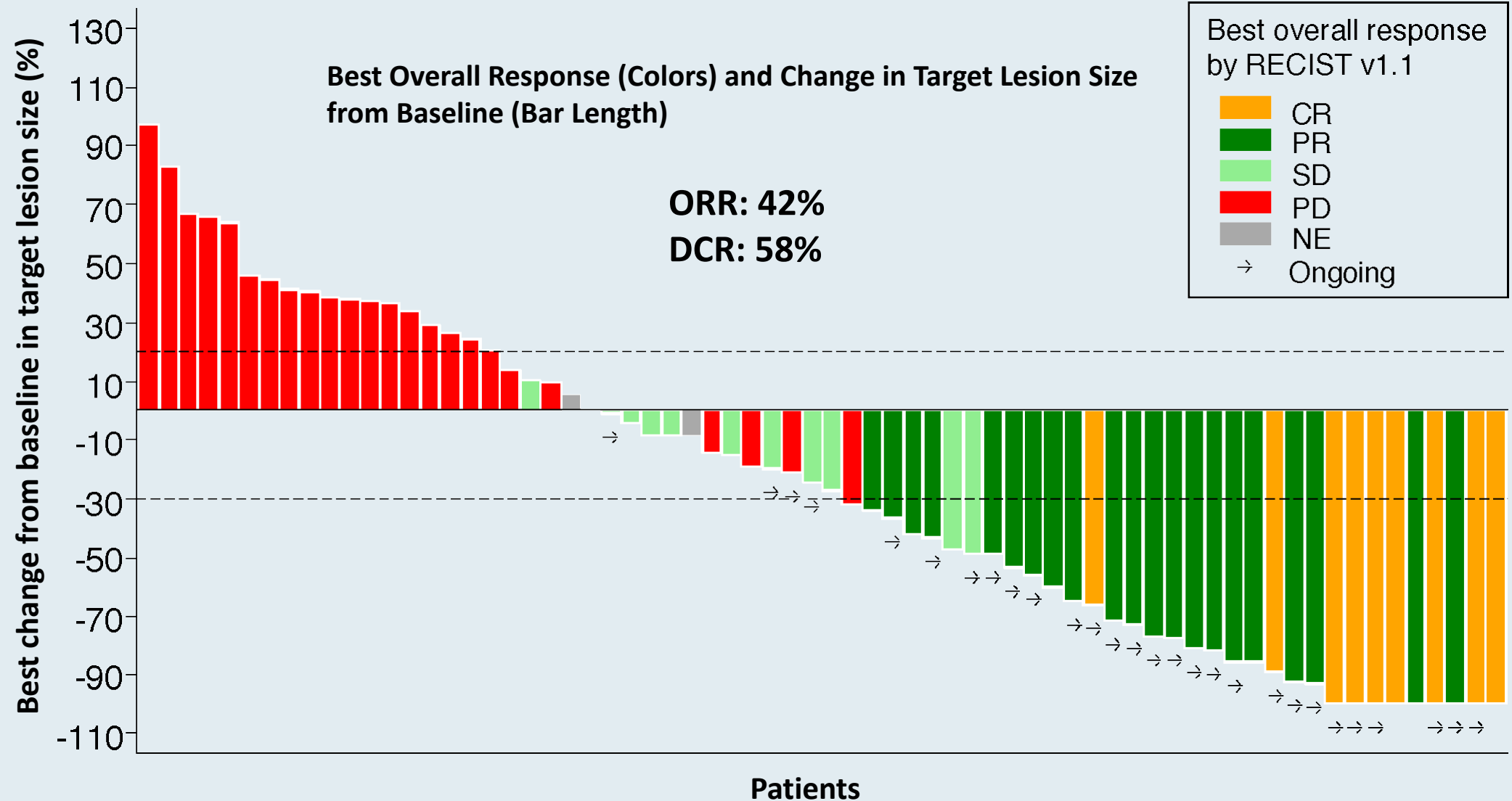
## MODULE 3: Key Recent Data Sets

- Pembrolizumab (KEYNOTE-158) or dostarlimab (GARNET) for MSI-H or dMMR endometrial cancer (EC)
- KEYNOTE-146: Pembrolizumab/lenvatinib for EC without MSI-H/dMMR; ongoing studies (KEYNOTE-775, LEAP-001)
- FDA approval of pembrolizumab for cervical cancer; ongoing studies (BEATcc, KEYNOTE-826, CALLA)
- KEYNOTE-100 trial: Pembrolizumab for advanced recurrent ovarian cancer
- Emerging data from JAVELIN Ovarian 200, TOPACIO, MEDIOLA trials in ovarian cancer
- Key ongoing studies (FIRST, MOONSTONE, ATHENA, DUO-O) in ovarian cancer
- Randomized Phase II trial of carboplatin/paclitaxel +/- trastuzumab for HER2-positive uterine serous carcinoma
- Emerging clinical data with tisotumab vedotin; ongoing innovaTV 205 study

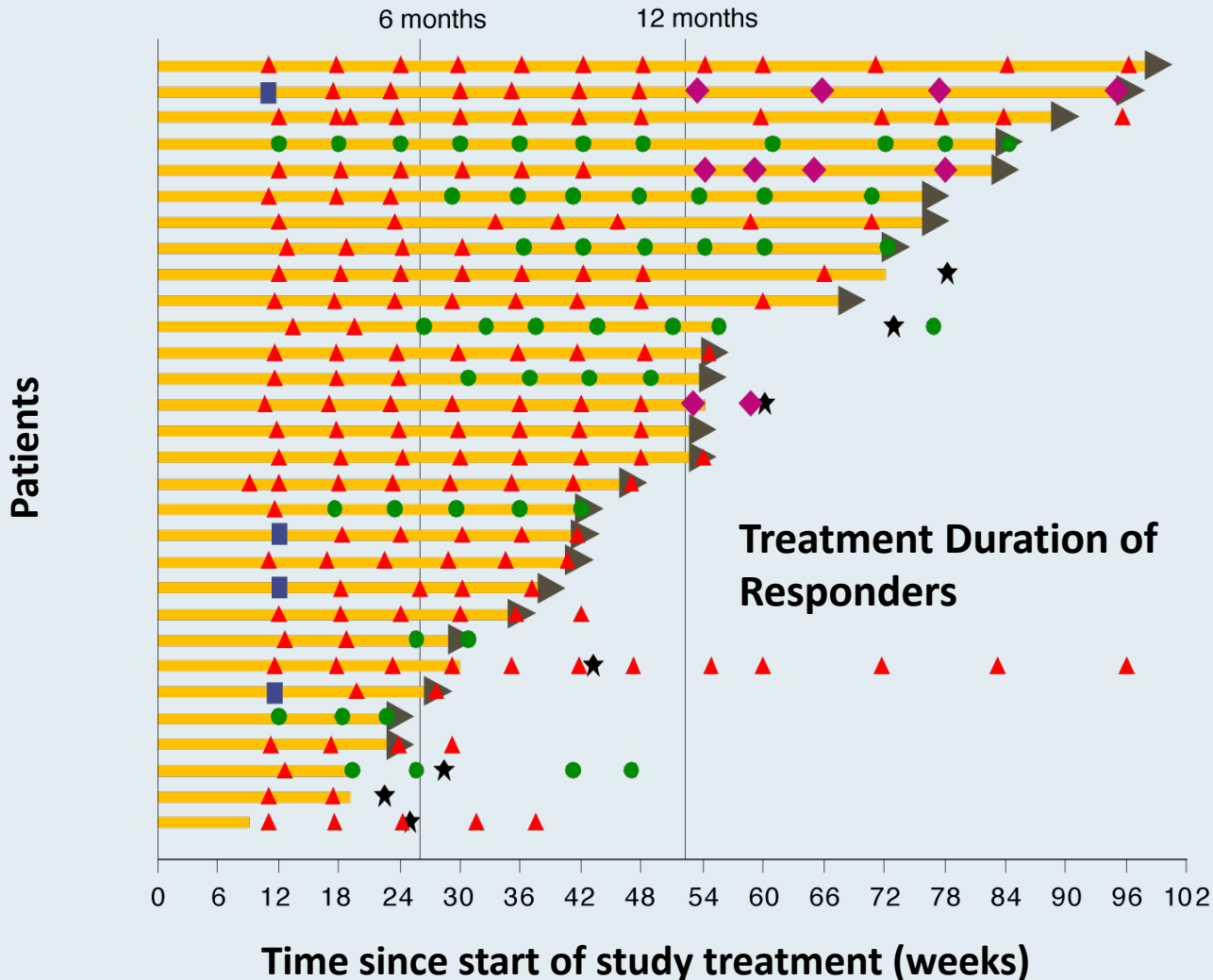
**KEYNOTE-158: Best Percentage Change from Baseline in Target Lesion Size with Pembrolizumab Monotherapy in MSI-H Endometrial Cancer**



# GARNET: Dostarlimab in Recurrent or Advanced dMMR Endometrial Cancer



# GARNET: Dostarlimab in Recurrent or Advanced dMMR Endometrial Cancer

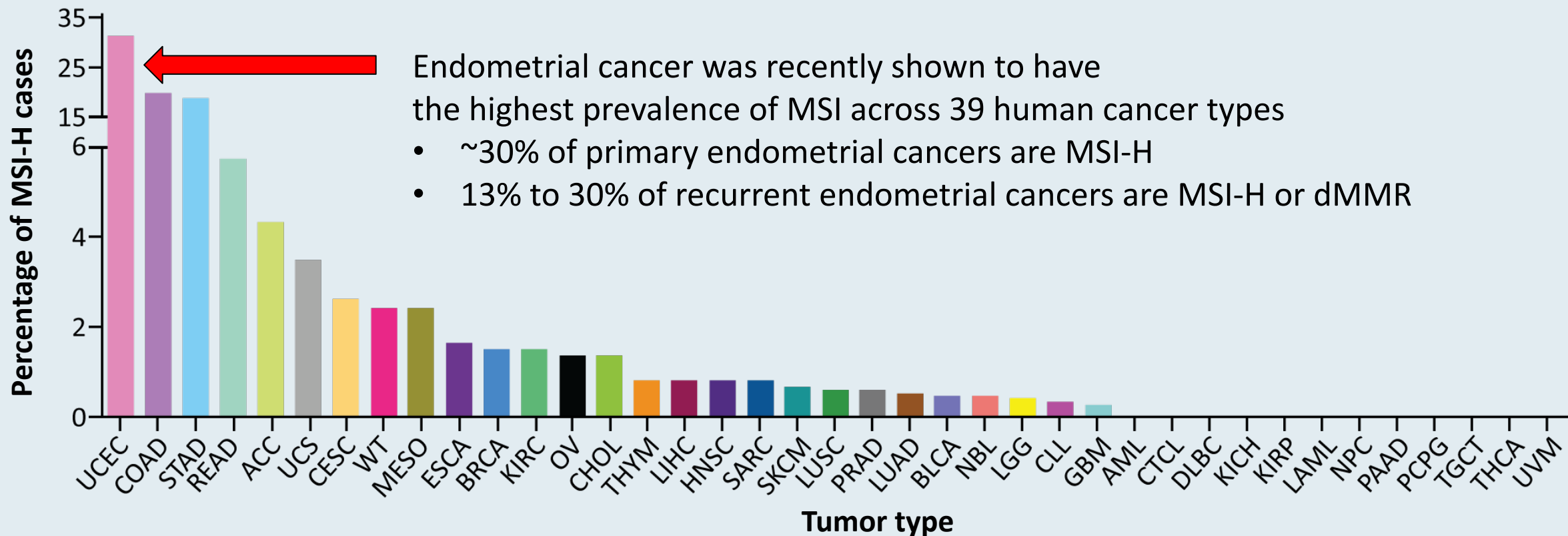


- Median follow-up is 11.2 mos
- Median DOR not reached (1.87+ to 19.61+ mos)
- 25 of 30 (83%) responders remain in response as of the data cutoff
- Deepening of responses:
  - SD → PR: 4 patients
  - PR → CR: 7 patients



# MSI-High Across 39 Cancer Types

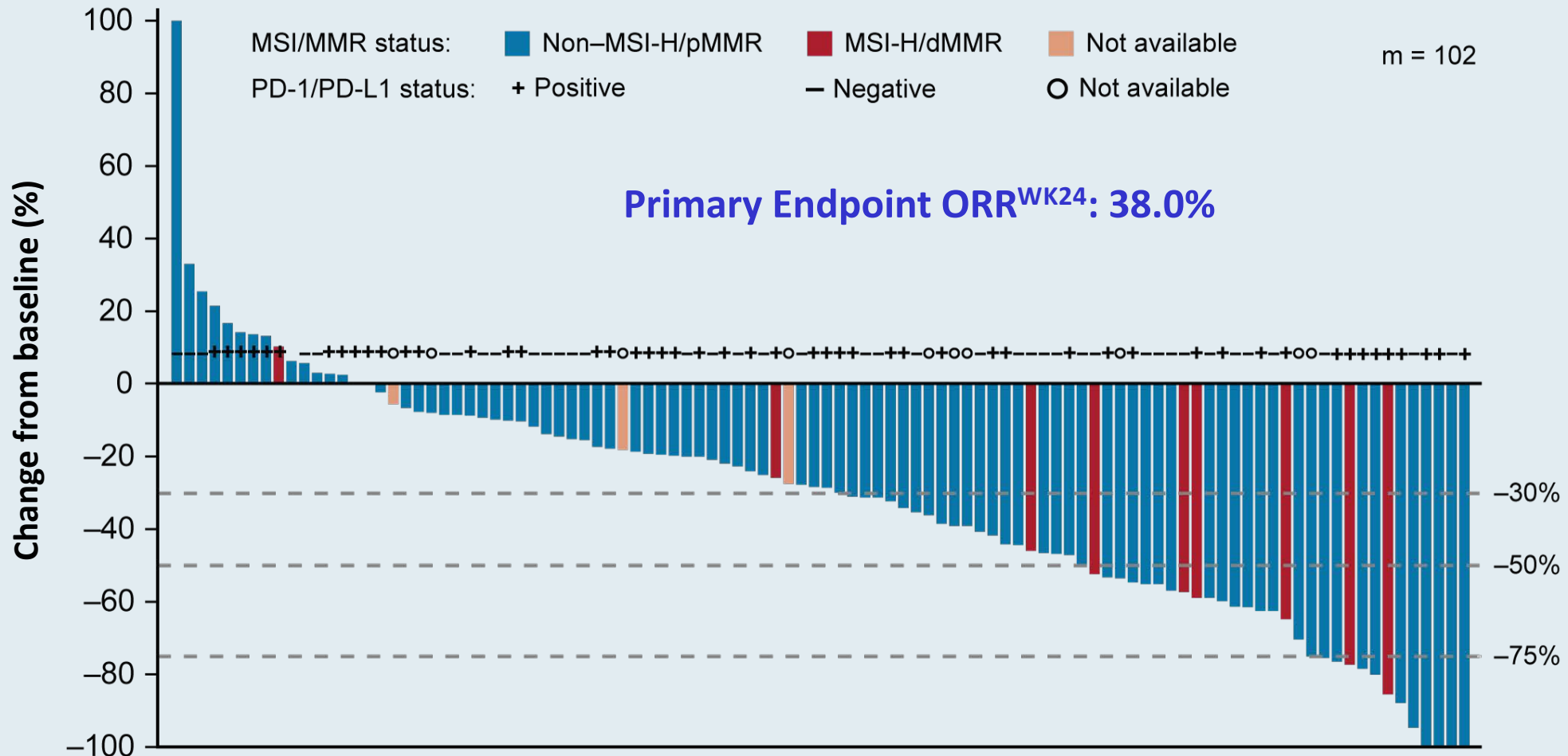
Whole-exome data from 11,139 tumor-normal pairs from The Cancer Genome Atlas and Therapeutically Applicable Research to Generate Effective Treatments projects



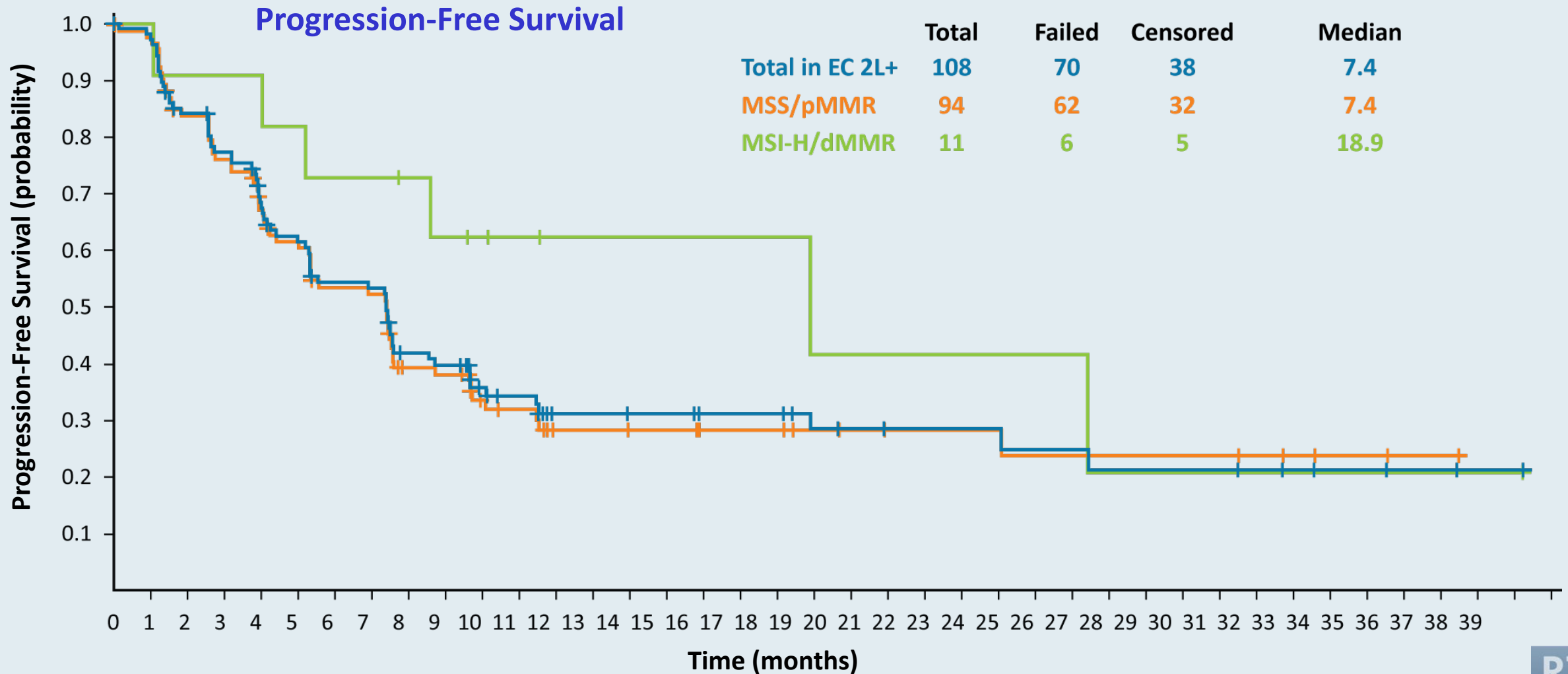
- Endometrial cancer was recently shown to have the highest prevalence of MSI across 39 human cancer types
- ~30% of primary endometrial cancers are MSI-H
  - 13% to 30% of recurrent endometrial cancers are MSI-H or dMMR

UCEC = uterine corpus endometrial carcinoma

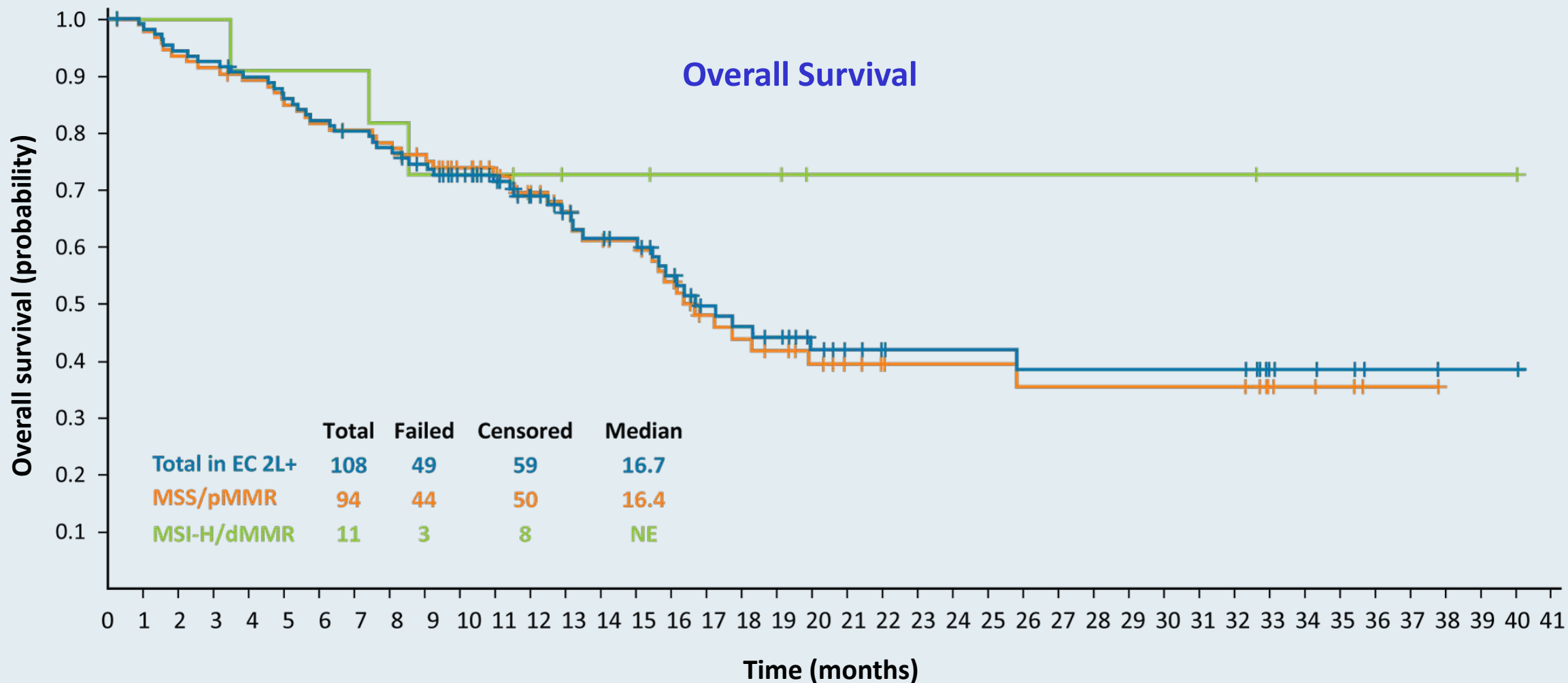
# KEYNOTE-146: Pembrolizumab/Lenvatinib in Advanced Endometrial Cancer That Is Not MSI-H or dMMR After Disease Progression on Prior Systemic Therapy



# KEYNOTE-146: Pembrolizumab/Lenvatinib in Advanced Endometrial Cancer That Is Not MSI-H or dMMR After Progression on Prior Systemic Therapy



# KEYNOTE-146: Pembrolizumab/Lenvatinib in Advanced Endometrial Cancer That Is Not MSI-H or dMMR After Progression on Prior Systemic Therapy

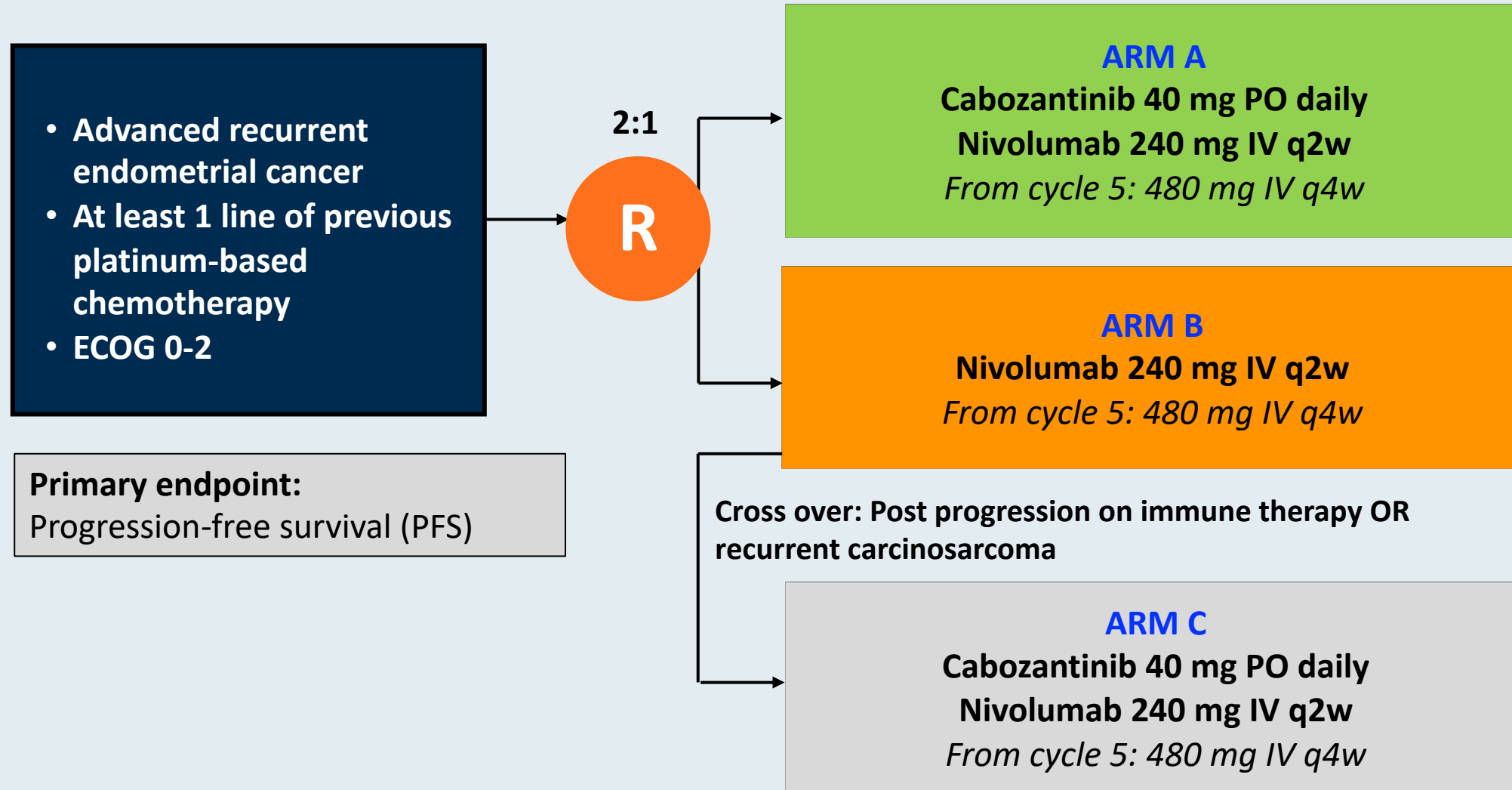


# **NCI 10104: A Randomized Phase 2 Study of Cabozantinib in Combination with Nivolumab in Advanced, Recurrent Metastatic Endometrial Cancer**

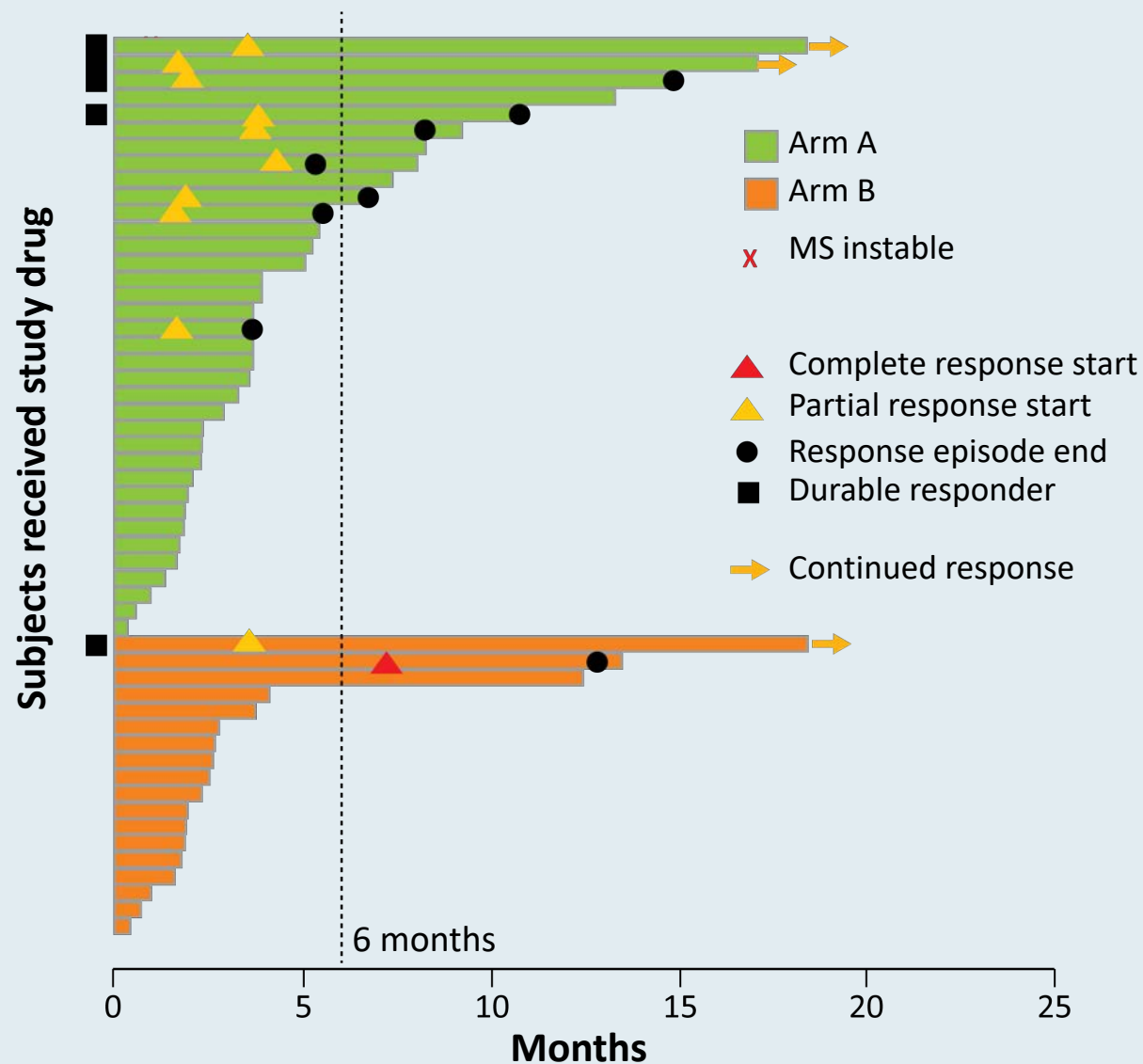
Lheureux S et al.

ASCO 2020;Abstract 6010.

# NCI 10104 Phase II Study Schema



# NCI 10104: Response Rate and Duration and Survival Analyses



	Arm A Cabo/nivolumab (n = 36)	Arm B Nivolumab (n = 18)
ORR	25%	11%
SD as best response	44%	11%
CBR	69%	22%
Median PFS*	5.3 mo	1.9 mo
Median OS <sup>†</sup>	13.0 mo	7.9 mo

\* HR: 0.59, significant

<sup>†</sup> Immature, 55% events

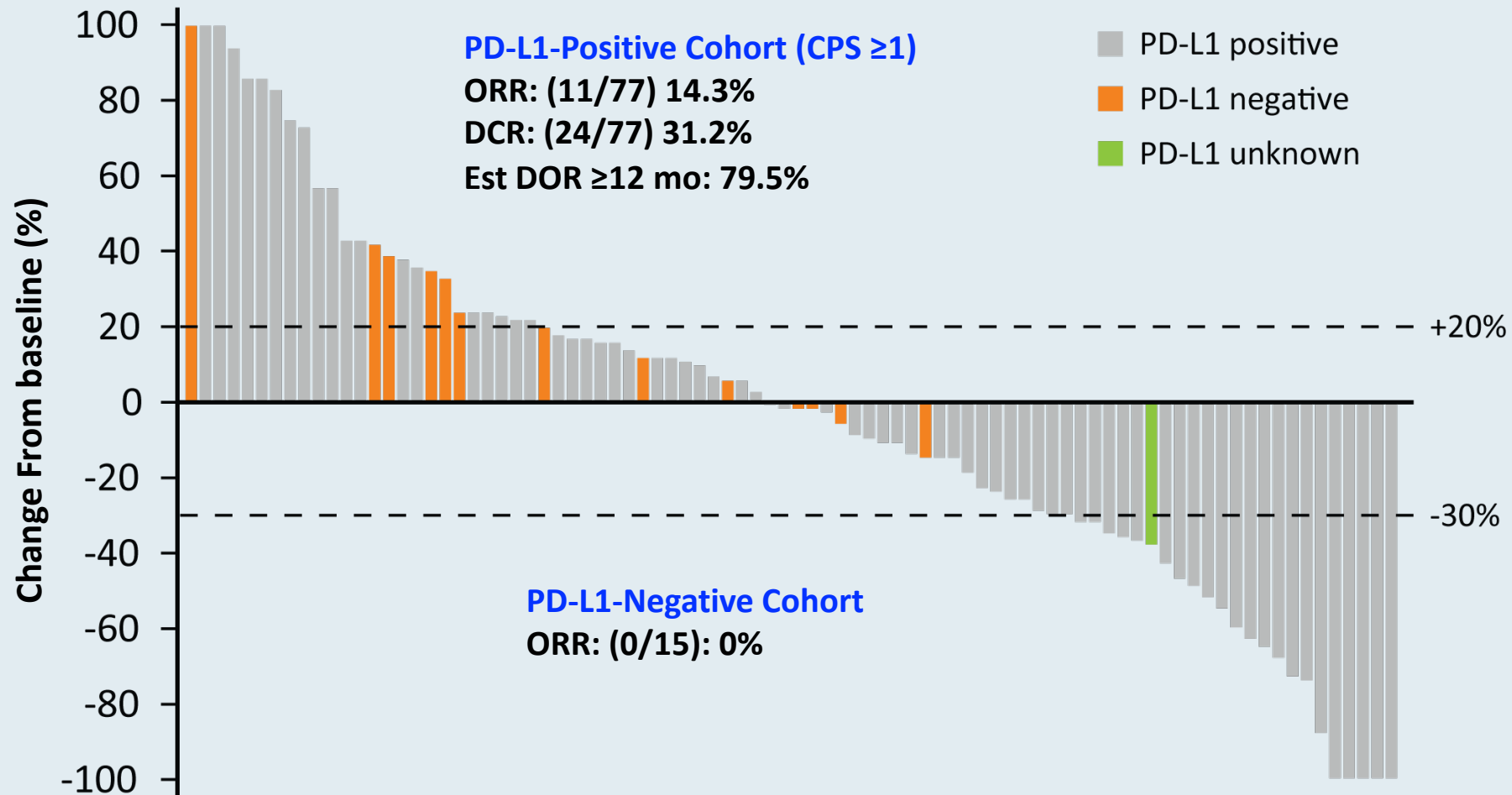
# Select Ongoing Phase III Immune Checkpoint Inhibitor Combination Studies

Trial	N	Eligibility	Randomization
KEYNOTE-775	780	<ul style="list-style-type: none"> <li>Advanced, recurrent or metastatic EC</li> <li>PD after 1 prior platinum-based chemo regimen</li> </ul>	<ul style="list-style-type: none"> <li>Pembro + lenvatinib</li> <li>Paclitaxel + carboplatin</li> </ul>
LEAP-001	720	<ul style="list-style-type: none"> <li>Stage III, IV or recurrent EC</li> <li>May have received 1 prior line of platinum-based adjuvant or neoadjuvant chemo</li> </ul>	<ul style="list-style-type: none"> <li>Pembro + lenvatinib</li> <li>Paclitaxel + carboplatin</li> </ul>
NRG-GY018	810	<ul style="list-style-type: none"> <li>Stage III, IVA or IVB or recurrent EC</li> <li>No prior chemo for EC, except adjuvant</li> </ul>	<ul style="list-style-type: none"> <li>Pembro + paclitaxel + carboplatin → Pembro</li> <li>Placebo + paclitaxel + carboplatin → Placebo</li> </ul>
RUBY	470	<ul style="list-style-type: none"> <li>Stage III, IV or first recurrent EC</li> </ul>	<ul style="list-style-type: none"> <li>Dostarlimab + paclitaxel + carboplatin</li> <li>Placebo + paclitaxel + carboplatin</li> </ul>
AtTEnd	550	<ul style="list-style-type: none"> <li>Newly dx with residual disease after surgery, OR inoperable Stage III-IV naïve to first-line systemic treatment</li> </ul>	<ul style="list-style-type: none"> <li>Atezolizumab + paclitaxel + carboplatin</li> <li>Placebo + paclitaxel + carboplatin</li> </ul>



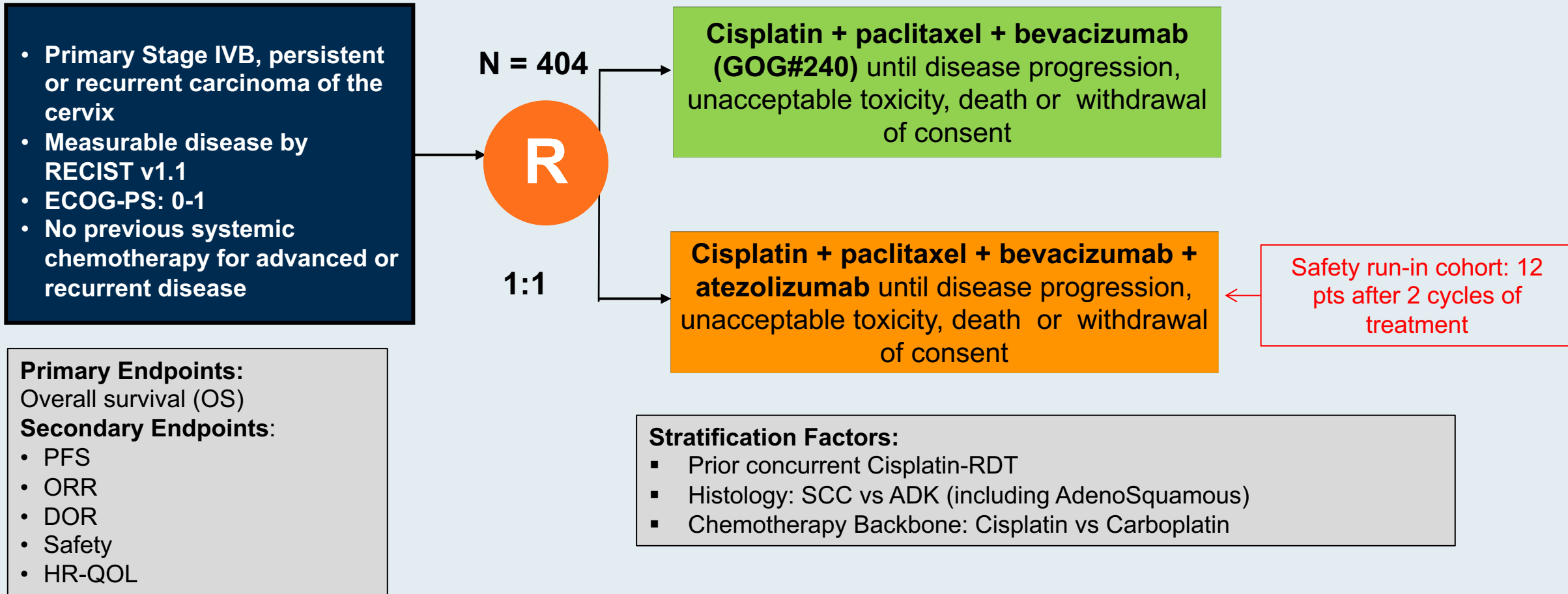
# **Anti-PD-1/PD-L1 Antibodies in Cervical Cancer**

# Phase II KEYNOTE-158: Pembrolizumab in Previously Treated Advanced Cervical Cancer

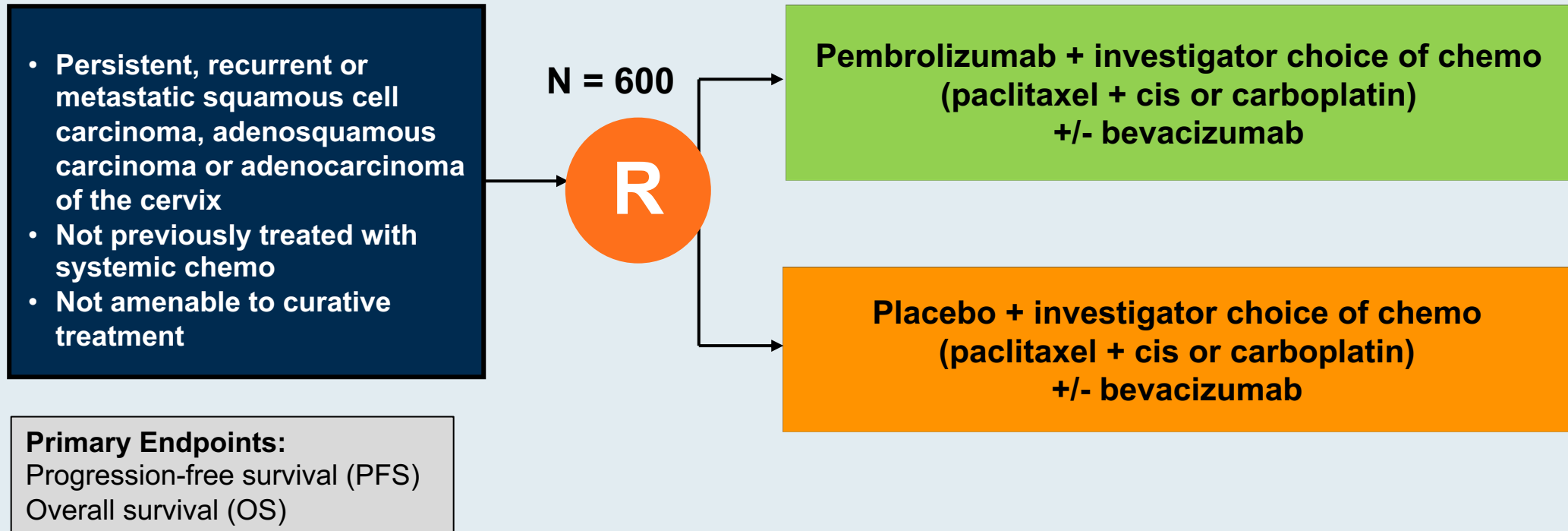


**Combined Positive Score (CPS)** = PD-L1+ cells (tumor cells, lymphocytes, macrophages) / Total number of tumor cells x 100

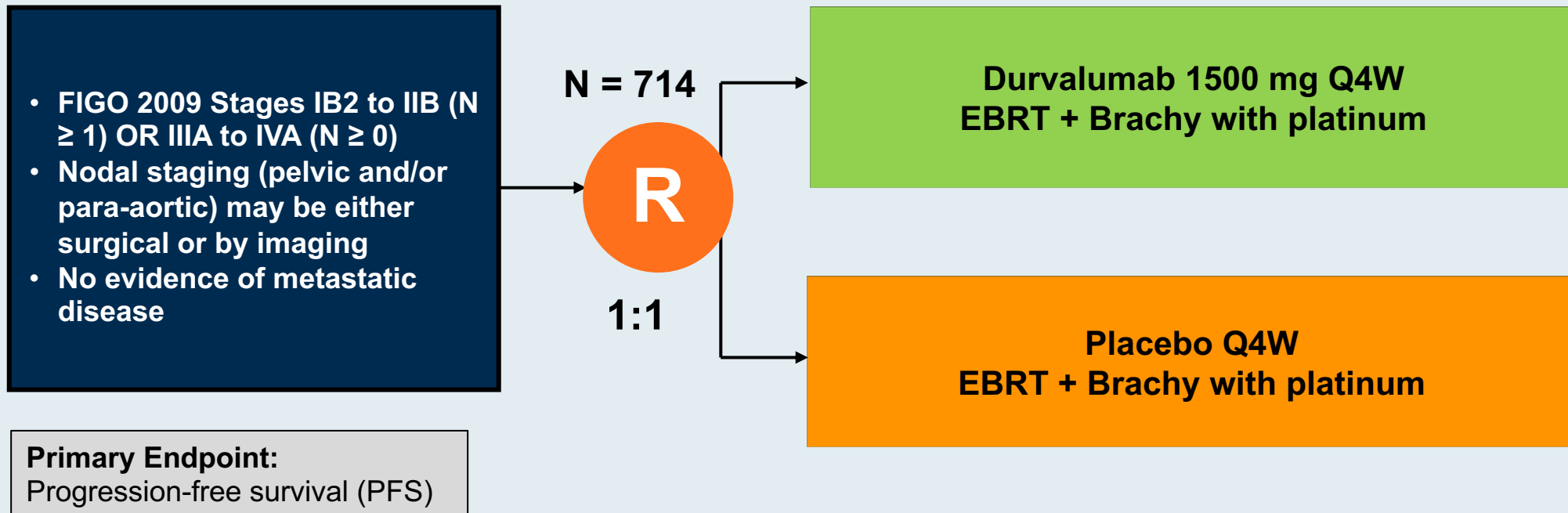
# BEATcc Phase III Randomized Front-Line Trial of Atezolizumab



# KEYNOTE-826 Phase III Schema



# CALLA Phase III Schema



# **Anti-PD-1/PD-L1 Antibodies in Ovarian Cancer**

# FDA-Approved Indications for Immunotherapy in Ovarian Cancer

## **Pembrolizumab: 2017 FDA approval for MSI-high/MMR deficient cancers**

- The incidence of germline MMR gene mutations in high grade serous cancers is 1-8%
- MMR deficiency is more common in non-serous ovarian cancer

## **2020 ASCO ovarian cancer genetics guidelines re MMR testing:**

- Women diagnosed with clear cell, endometrioid, or mucinous ovarian cancer should be offered somatic tumor testing for mismatch repair deficiency
- Testing for MMR deficiency may be offered to women diagnosed with other histologic types of epithelial ovarian cancer

# **Final Results from the KEYNOTE-100 Trial of Pembrolizumab in Patients with Advanced Recurrent Ovarian Cancer**

Matulonis UA et al.

ASCO 2020;Abstract 6005.



# KEYNOTE-100 Phase II, 2-Cohort Study Schema

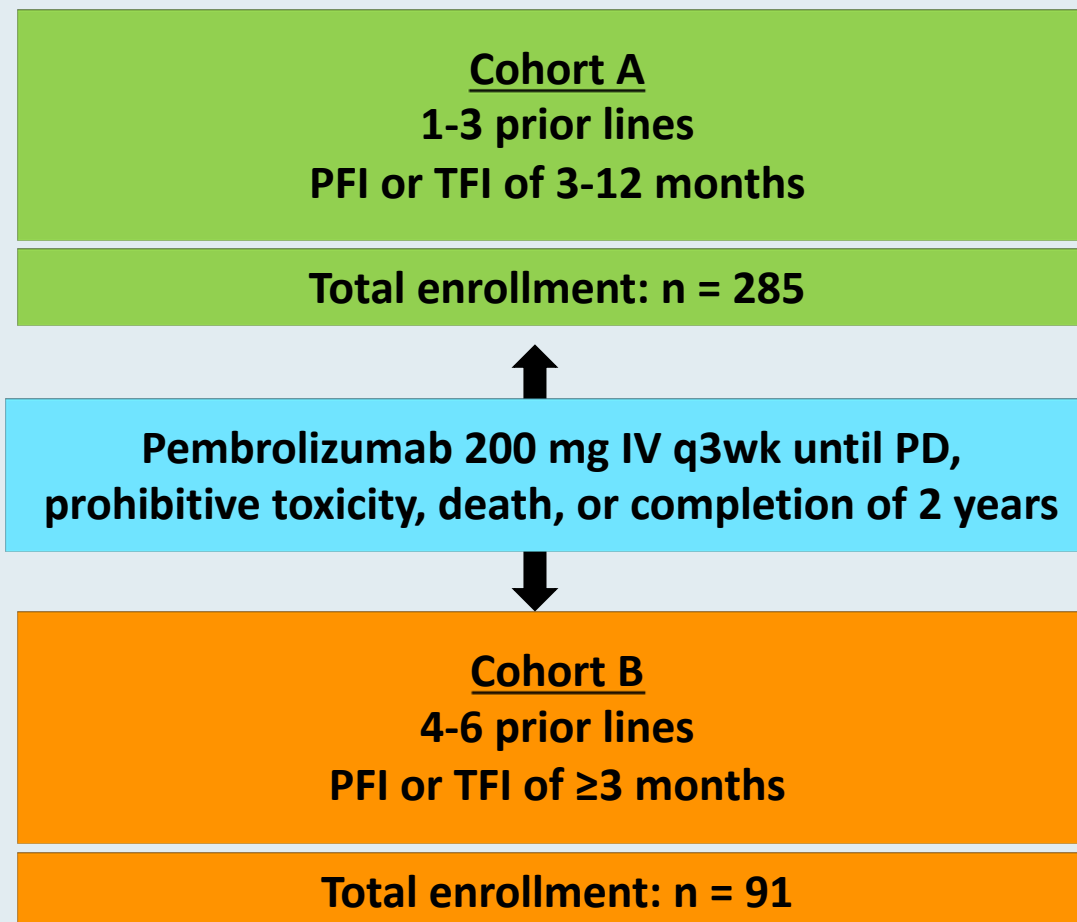
## Patients (N = 376)

- Recurrent, advanced epithelial ovarian, fallopian tube, or primary peritoneal cancer
- ECOG PS 0 or 1
- Provision of a tumor sample for biomarker analysis

## Key exclusion criteria

- Mucinous histology
- No bowel obstruction within 3 months
- No active autoimmune disease
- No active CNS metastases and/or carcinomatous meningitis

PFI = platinum-free interval; TFI = treatment-free interval



# KEYNOTE-100: Summary of Efficacy, Including by PD-L1 Status

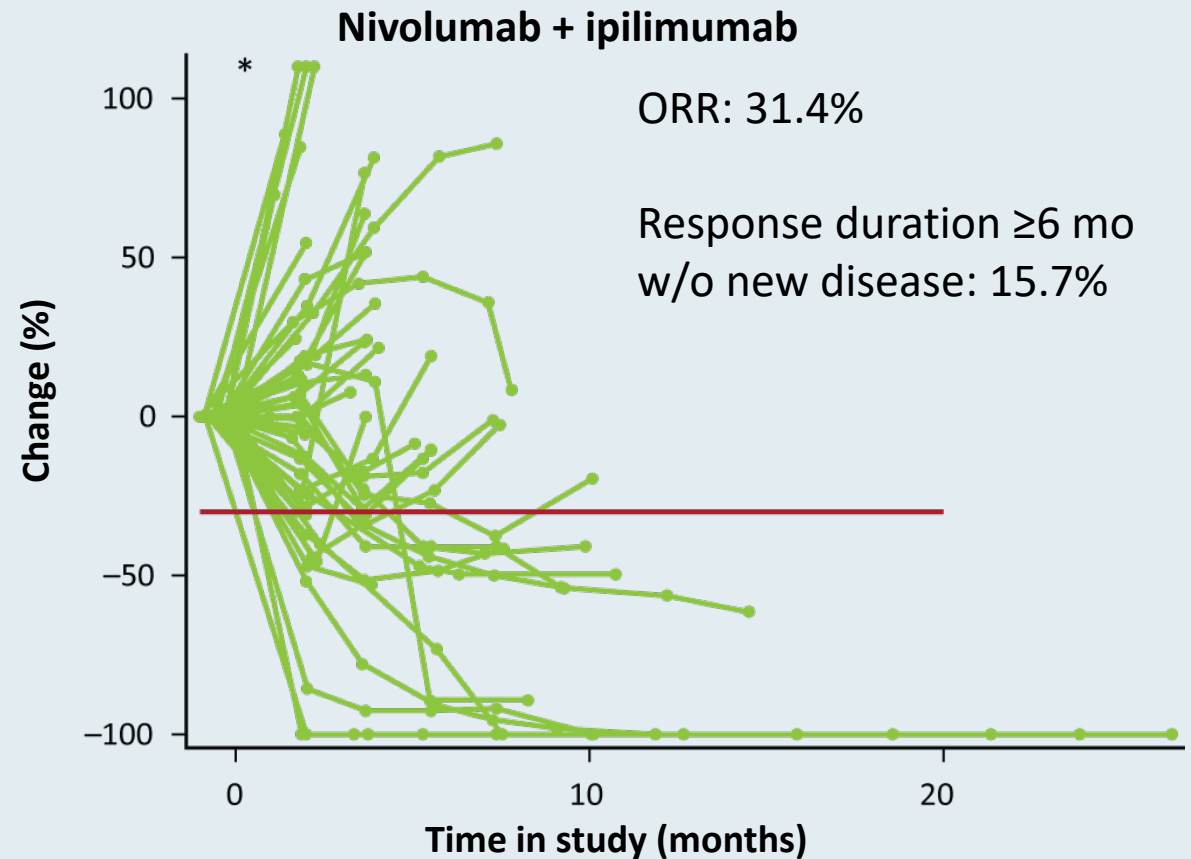
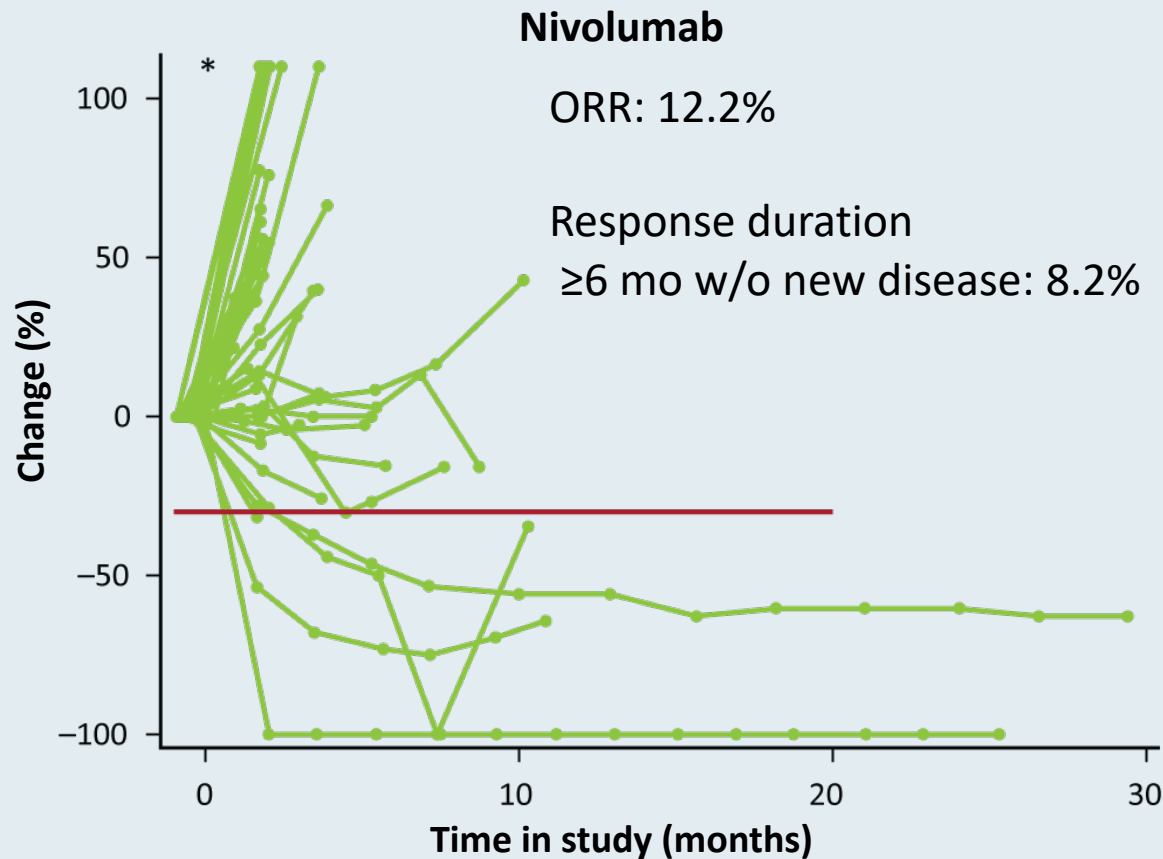
Endpoint	Cohort A 1-3 prior lines PFI/TFI 3-12 months			Cohort B 4-6 prior lines PFI/TFI ≥3 months			Cohorts A + B All comers		
	All n = 285	CPS ≥1 n = 101	CPS ≥10 n =43	All n = 91	CPS ≥1 n = 49	CPS ≥10 n = 22	All n = 376	CPS ≥1 n = 150	CPS ≥10 n = 65
ORR	8.1%	6.9%	11.6%	9.9%	10.2%	18.2%	8.5%	8.0%	13.8%
DoR	8.3 mo	Not reported	Not reported	23.6 mo	Not reported	Not reported	10.2 mo	Not reported	Not reported
OS	18.7 mo	20.6 mo	21.9 mo	17.6 mo	20.7 mo	24.0 mo	Not reported	Not reported	Not reported

# JAVELIN Ovarian 200: Avelumab Alone or in Combination with Pegylated Liposomal Doxorubicin (PLD) versus PLD Alone in Platinum-Resistant or Refractory OC

	Avelumab (n = 188)		Avelumab + PLD (n = 188)		PLD (n = 190)	
All patients						
Median OS	11.8 mo		15.7 mo		13.1 mo	
	HR: 1.14, <i>p</i> = 0.83		HR: 0.80, <i>p</i> = 0.21		Reference	
Median PFS	1.9 mo		3.7 mo		3.5 mo	
	HR: 1.68, <i>p</i> > 0.99		HR: 0.78, <i>p</i> = 0.03		Reference	
PD-L1 evaluable	PD-L1+ (n = 91)	PD-L1- (n = 62)	PD-L1+ (n = 92)	PD-L1- (n = 58)	PD-L1+ (n = 73)	PD-L1- (n = 66)
Median OS	13.7 mo	10.5 mo	18.4 mo	12.7 mo	13.8 mo	13.1 mo
	HR: 0.80	HR: 1.4	HR: 0.72	HR: 1.1	Ref	Ref
Median PFS	1.9 mo	1.8 mo	3.7 mo	3.9 mo	1.9 mo	3.7 mo
	HR: 1.3	HR: 1.8	HR: 0.59	HR: 0.92	Ref	Ref

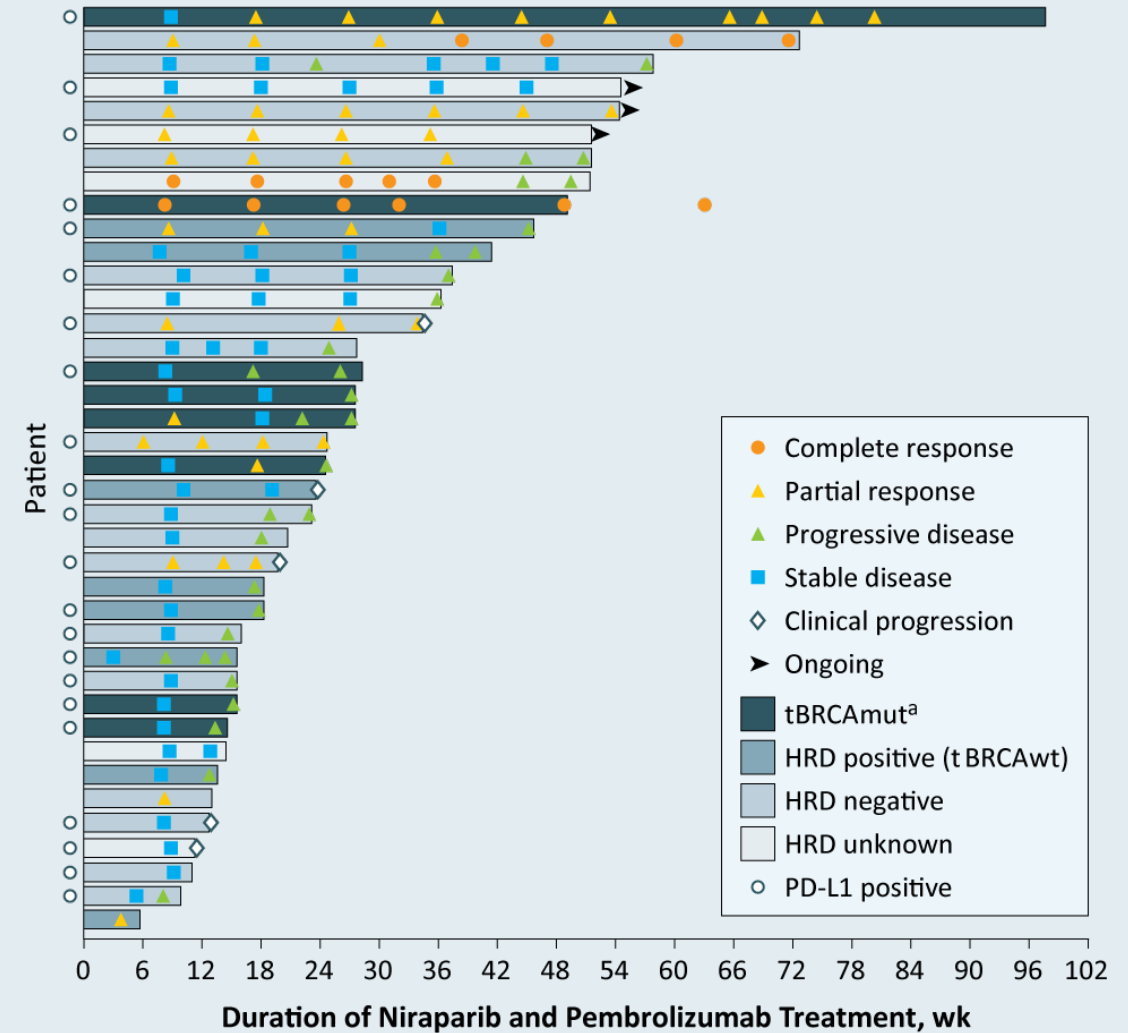
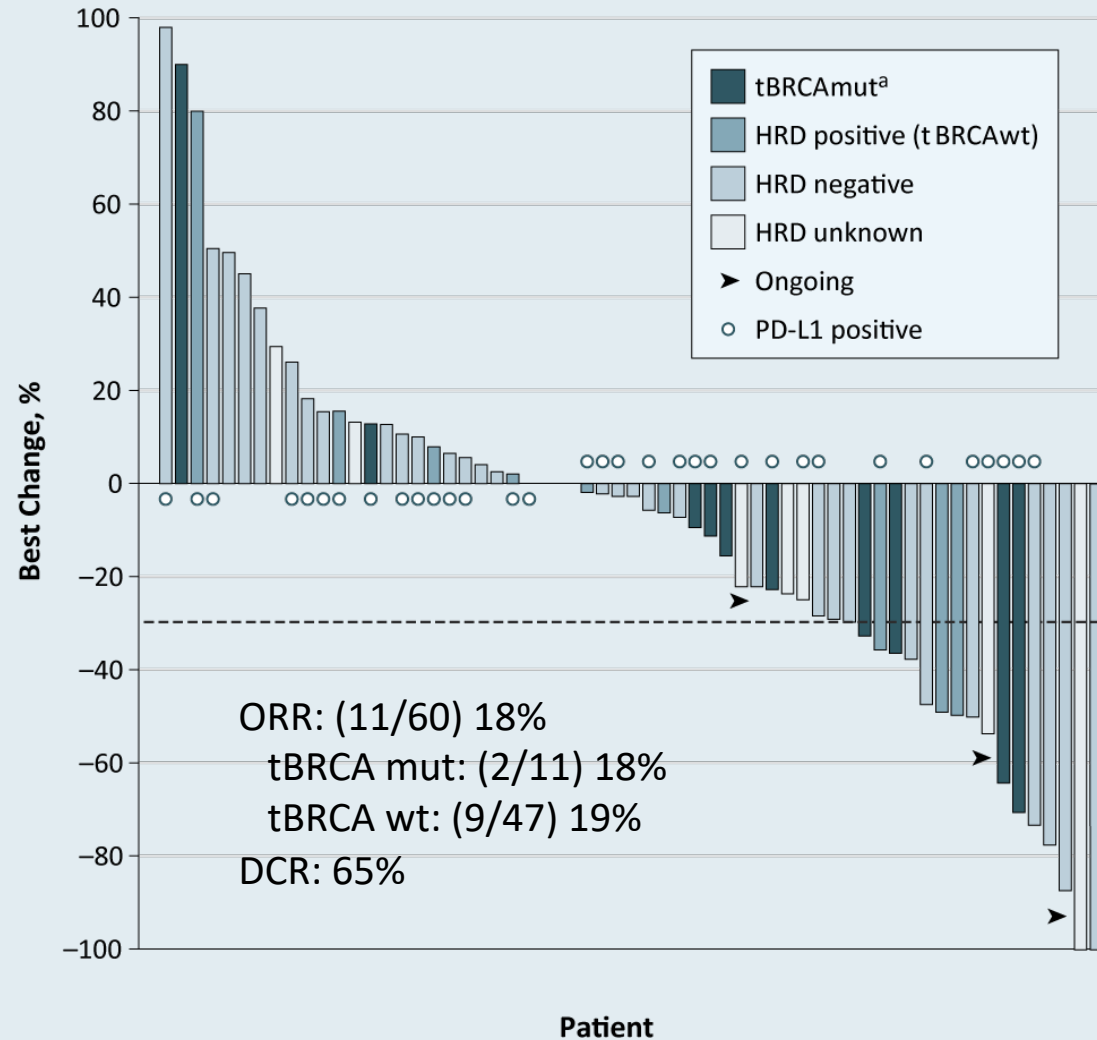
# NRG GY003 Phase II Study of Nivolumab with or without Ipilimumab in Recurrent or Persistent OC

(PFI <6 months: 62%,  $\geq 2$  prior cytotoxic regimens: 70%+ of patients)

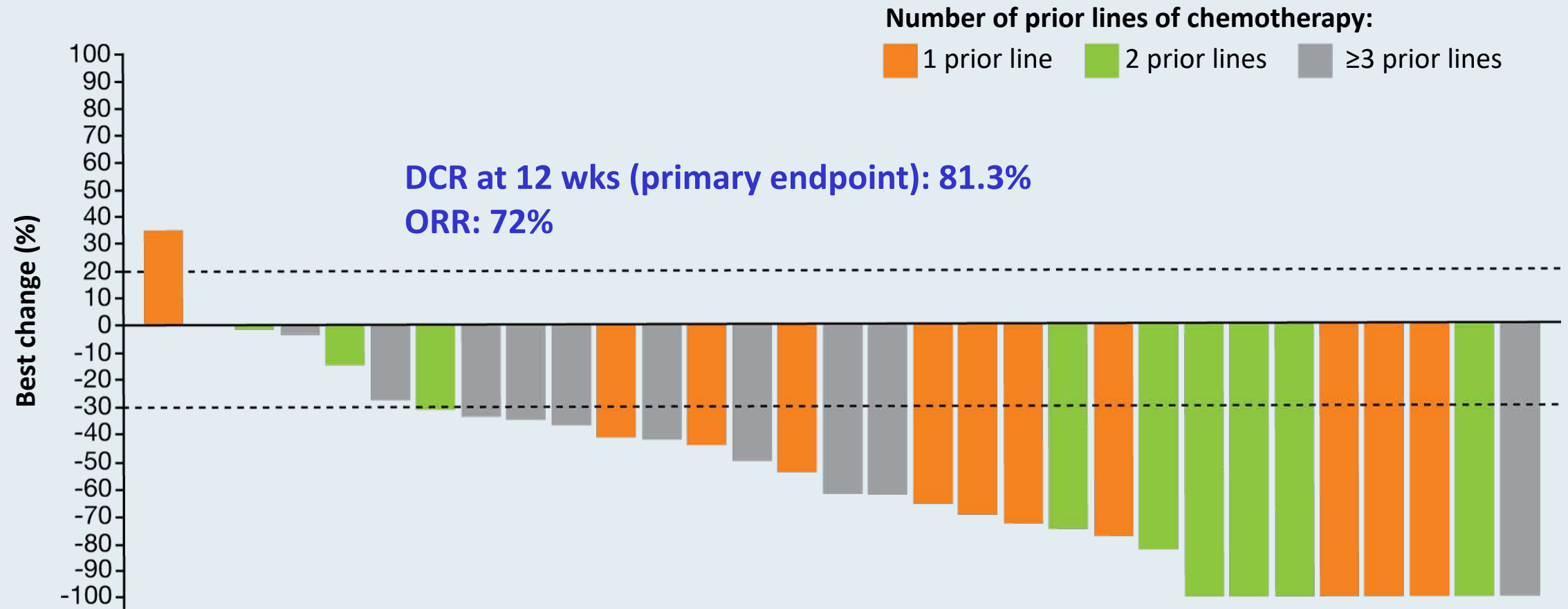


PD-L1 expression was not significantly associated with response in either treatment group

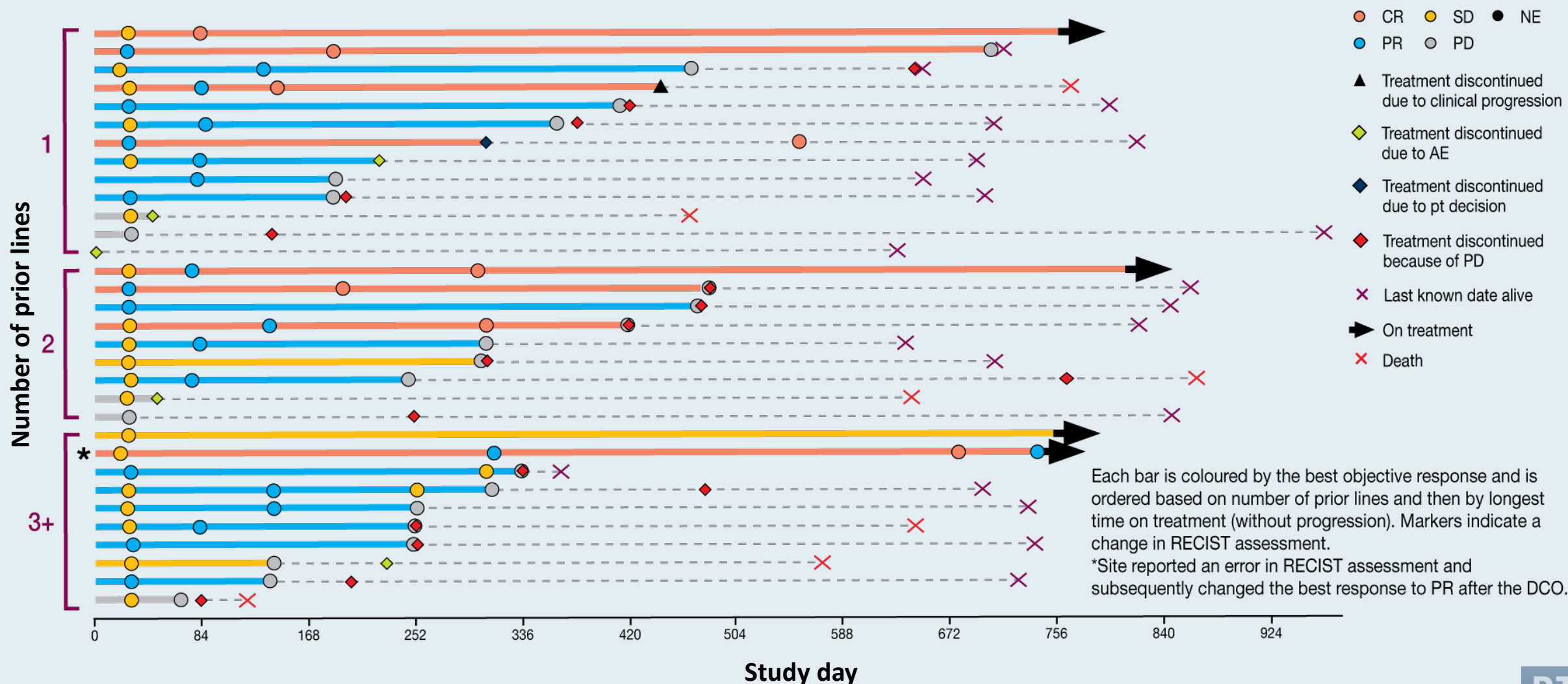
# TOPACIO/KEYNOTE-162: Niraparib and Pembrolizumab in Recurrent Platinum-Resistant Ovarian Cancer



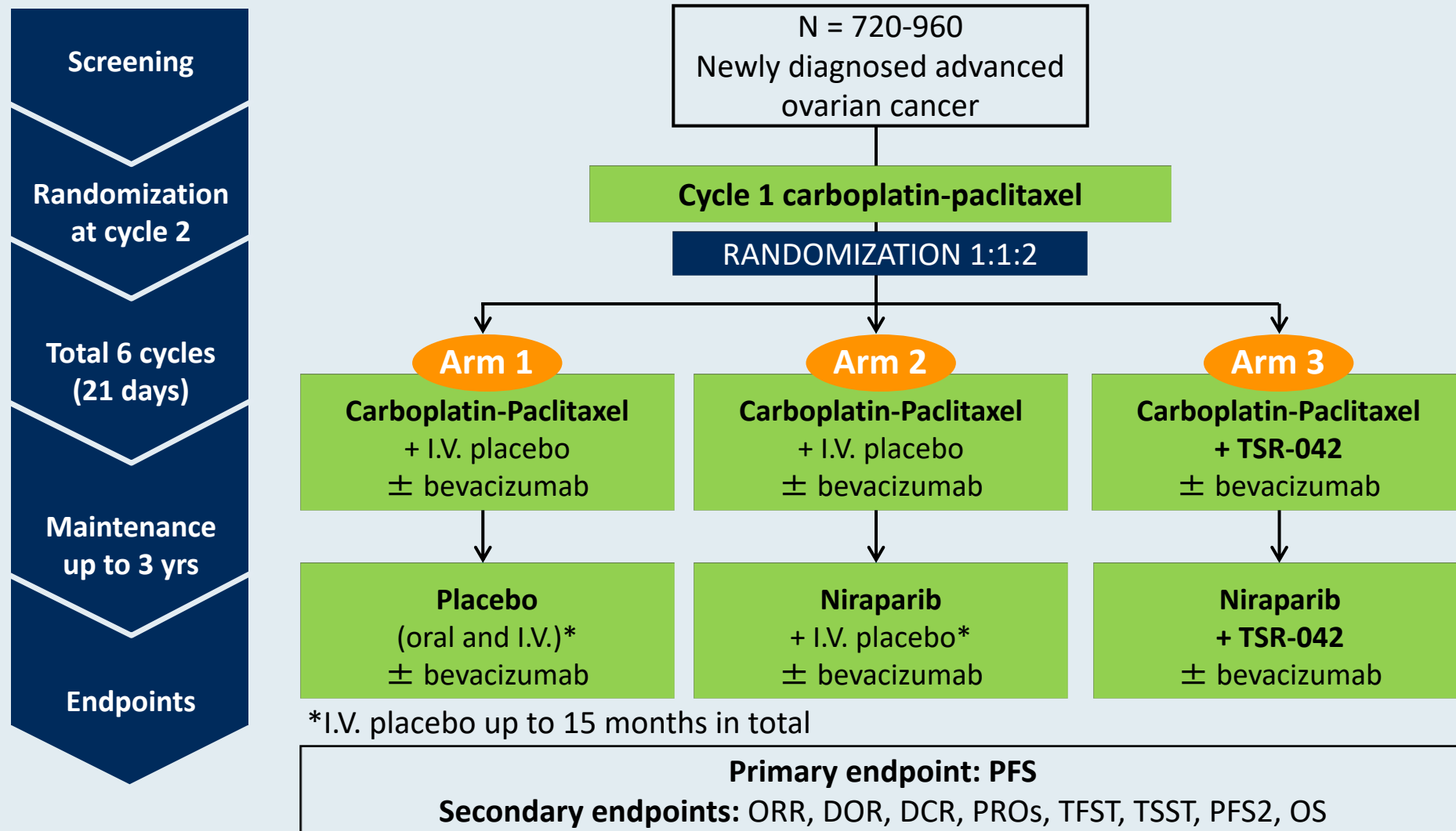
# MEDIOLA: A Phase II Study of Olaparib and Durvalumab in gBRCA-Mutated Platinum-Sensitive Relapsed OC



# MEDIOLA: Time to Disease Progression or Treatment Discontinuation, Based on Number of Prior Lines of Therapy



# FIRST Phase III Trial of Dostarlimab (TSR-042) in Newly Diagnosed Ovarian Cancer





# Phase II MOONSTONE Study Design

## Eligibility

- Completed 1-3 prior lines of therapy for advanced or metastatic ovarian cancer
- Previously treated with platinum-based chemo, taxane and bevacizumab
- Resistant to last administered platinum agent
- No known BRCA 1 or 2 mutation

N=150

**Niraparib + Dostarlimab**

**Primary endpoint:** ORR

**Secondary endpoints:** DOR, PFS, OS, DCR

## Select Ongoing Phase III Trials of Immunotherapy in Combination with PARP Inhibitors

Trial name (Trial identifier)	N	Setting	Treatment arms
ATHENA (NCT03522246)	1,012	Maintenance therapy after 1L platinum-based chemo	<ul style="list-style-type: none"> <li>• Rucaparib + nivolumab</li> <li>• Rucaparib + placebo</li> <li>• Nivolumab + placebo</li> <li>• Placebo</li> </ul>
DUO-O (NCT03737643)	1,056	Maintenance therapy after 1L platinum-based chemo/bev ± durvalumab	<ul style="list-style-type: none"> <li>• Bevacizumab</li> <li>• Bevacizumab + durvalumab</li> <li>• Bevacizumab + durvalumab + olaparib</li> </ul>

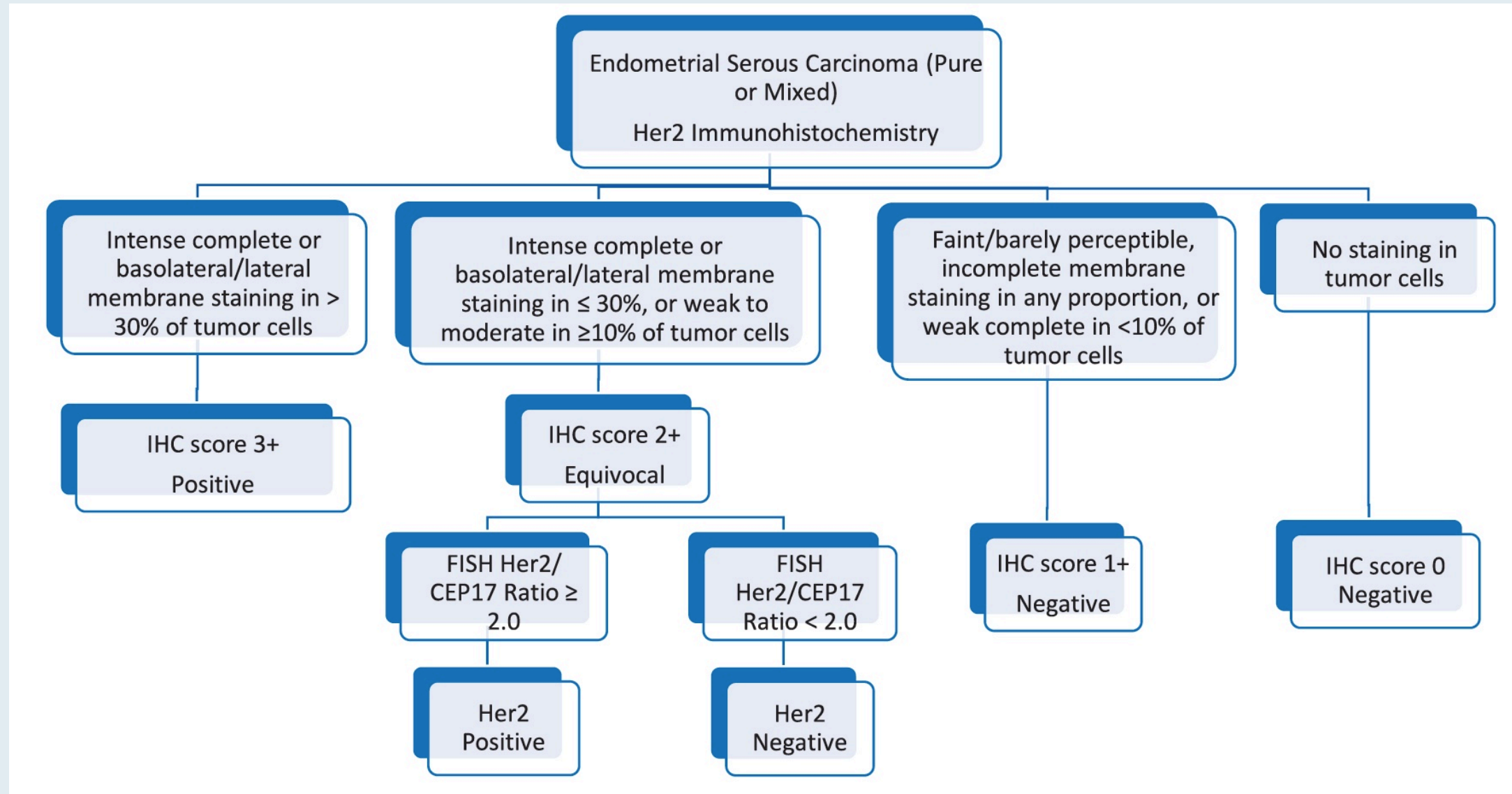
# HER2-Positive Endometrial Cancer

# HER2 Testing in Endometrial Serous Carcinoma

Current Criteria (Approved or Proposed) for HER2 Positivity by Immunohistochemistry (IHC) and Fluorescence In Situ Hybridization (FISH) in Different Tumor Types				
	Breast (ASCO/CAP 2018) <sup>23</sup>	Gastric (ASCO/CAP 2016) <sup>36</sup>	Colorectal (HERACLES Trial) <sup>39</sup>	Endometrial Serous (Fader et al Clinical Trial) <sup>21</sup>
HER2 IHC 3+	>10% circumferential, strong, complete	≥10%, strong complete, or basolateral/lateral	≥50% strong complete, or basolateral/lateral	>30% strong complete or basolateral/lateral
HER2 FISH amplification	HER2/CEP17 ratio ≥2.0 and HER2 signal ≥4.0 per nucleus OR ratio <2.0 and HER2 signal ≥6.0 per nucleus (if IHC score 2+ or 3+)	HER2/CEP17 ratio ≥2.0 OR ratio <2.0 and HER2 signal >6.0 per nucleus	HER2/CEP17 ratio ≥2.0 in ≥50% of cells	HER2/CEP17 ratio ≥2.0

Abbreviations: ASCO, American Society of Clinical Oncology; CAP, College of American Pathologists.

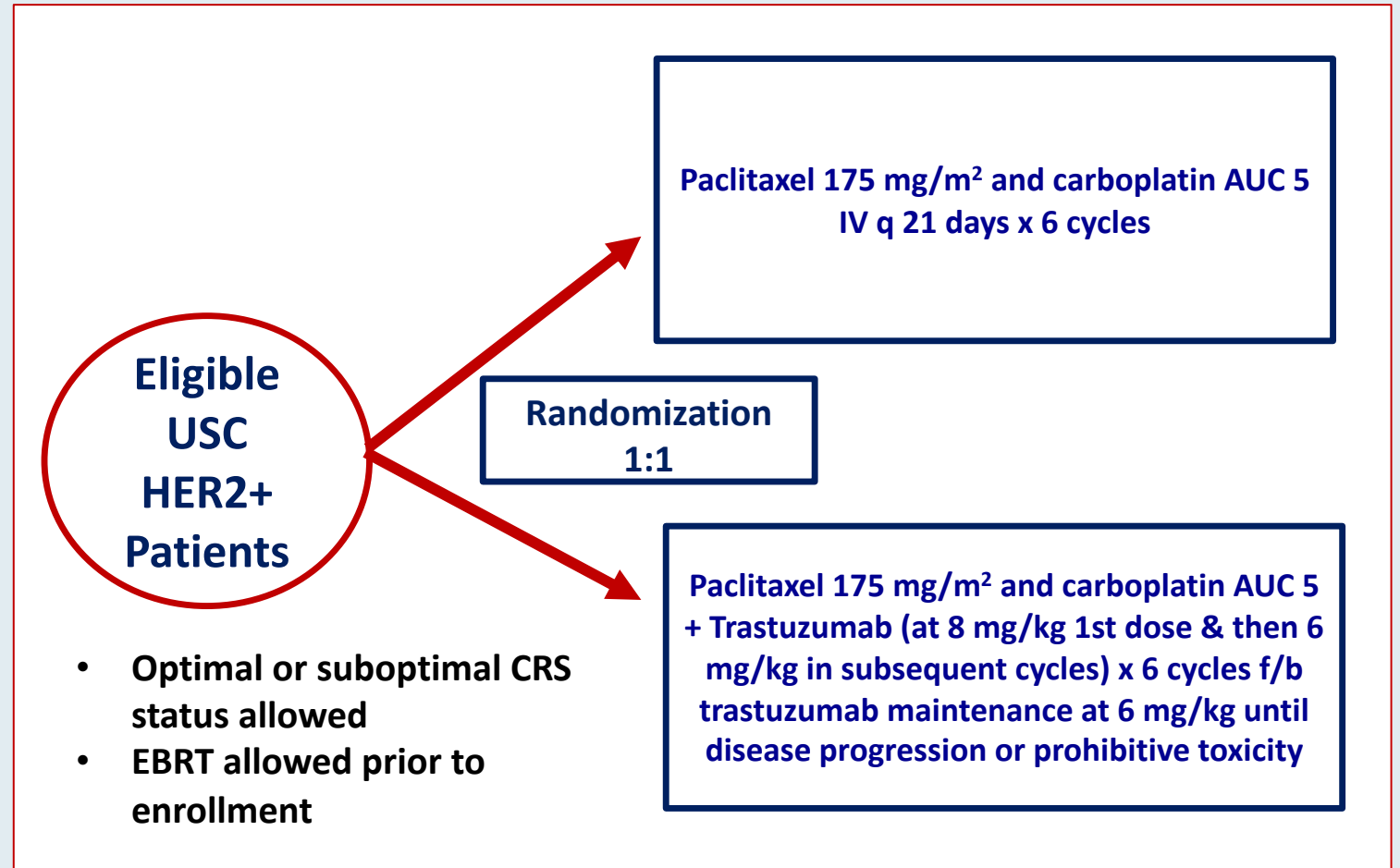
# Proposed HER2 Testing Algorithm for Endometrial Serous Carcinoma



# Randomized Phase II Trial of Carboplatin/Paclitaxel versus Carboplatin/Paclitaxel/Trastuzumab for Uterine Serous Carcinoma That Overexpresses HER2/Neu: Updated Survival Analysis

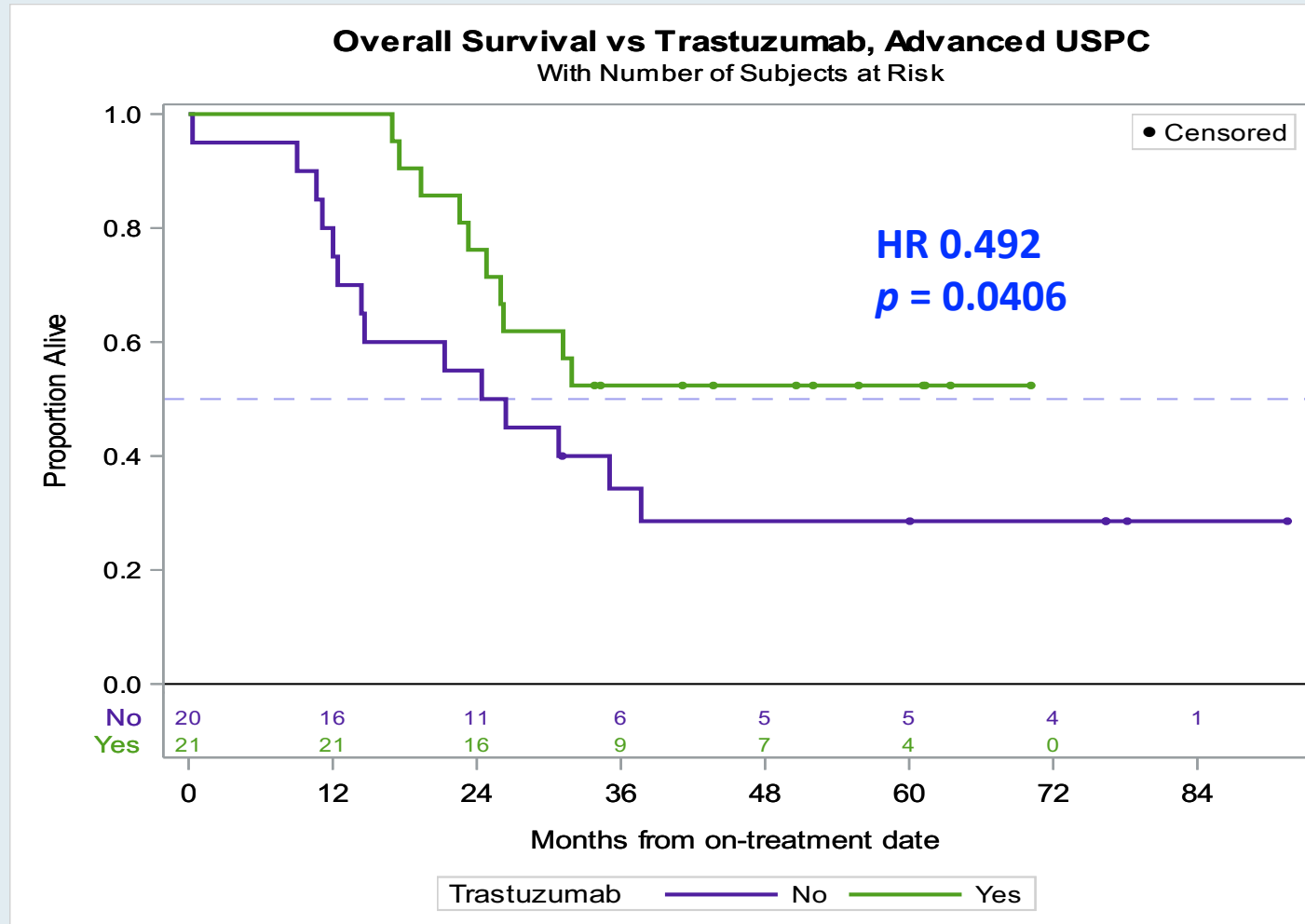
## Eligibility

- FIGO Stage III-IV USC or recurrent USC
- HER2/neu+ USC as defined by IHC score of 3+ (ASCO/CAP 2007 criteria) or 2+ with gene amplification confirmed by FISH
- Patients diagnosed with recurrence were required to have measurable disease, defined as at least one target lesion per RECIST 1.1
- Patients with recurrent disease may not have received >3 prior chemotherapies for treatment of their EC, and a treatment-free interval of >6 months from last C/T was required for patients with recurrent disease



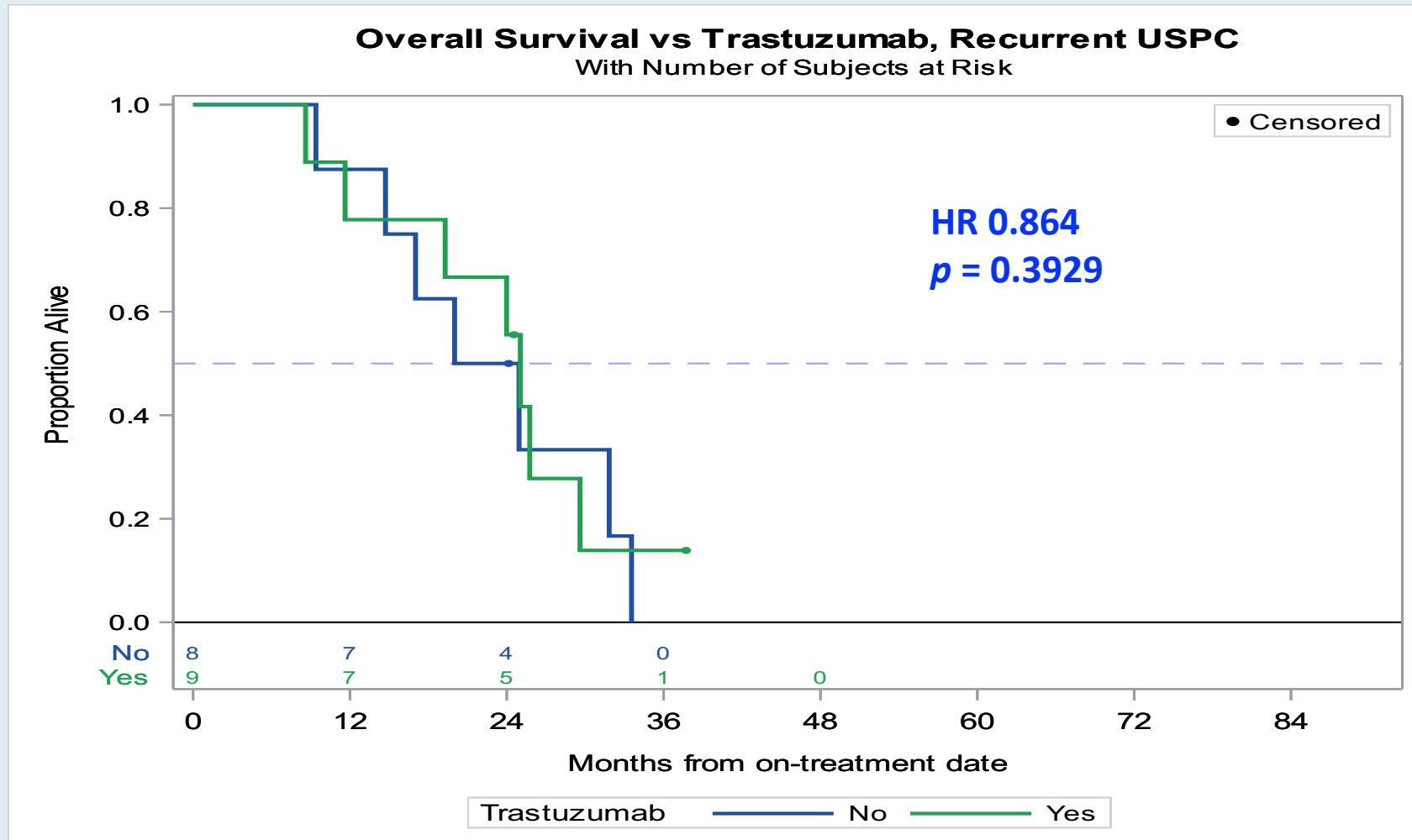
# Overall Survival with the Addition of Trastuzumab to Carboplatin/Paclitaxel for Advanced Uterine Serous Papillary Carcinoma (USPC)

- Benefit was particularly striking in the Stage III-IV pts, with a median OS of 25.4 mo (control) compared with an unreached median OS (experimental;  $p = 0.0406$ , HR 0.492)



# Overall Survival with the Addition of Trastuzumab to Carboplatin/Paclitaxel for Recurrent USPC

- No significant OS benefit was observed in the recurrence cohort





# Carboplatin/Paclitaxel/Trastuzumab: Summary

- First trial of targeted therapy in USC ONLY patients
- Demonstration that HER2 is an important prognostic and actionable target in USC
- NCCN designation of C/T/Trastuzumab as a preferred regimen in HER2+ USC (Level IIA)

# Phase II DESTINY-PanTumor02 Study Design

Trial Identifier: NCT04482309 (Not yet recruiting)

Estimated Enrollment: 280

## Eligibility

- Locally advanced, unresectable or metastatic disease
- Disease progression after prior treatment or no satisfactory alternative treatment option
- Prior HER2-targeted therapy allowed
- HER2 expression may be based on local or central assessment



## Trastuzumab deruxtecan

7 cohorts will be evaluated:  
Endometrial cancer, cervical cancer, ovarian cancer, bladder cancer, biliary tract cancer, pancreatic cancer and rare tumors

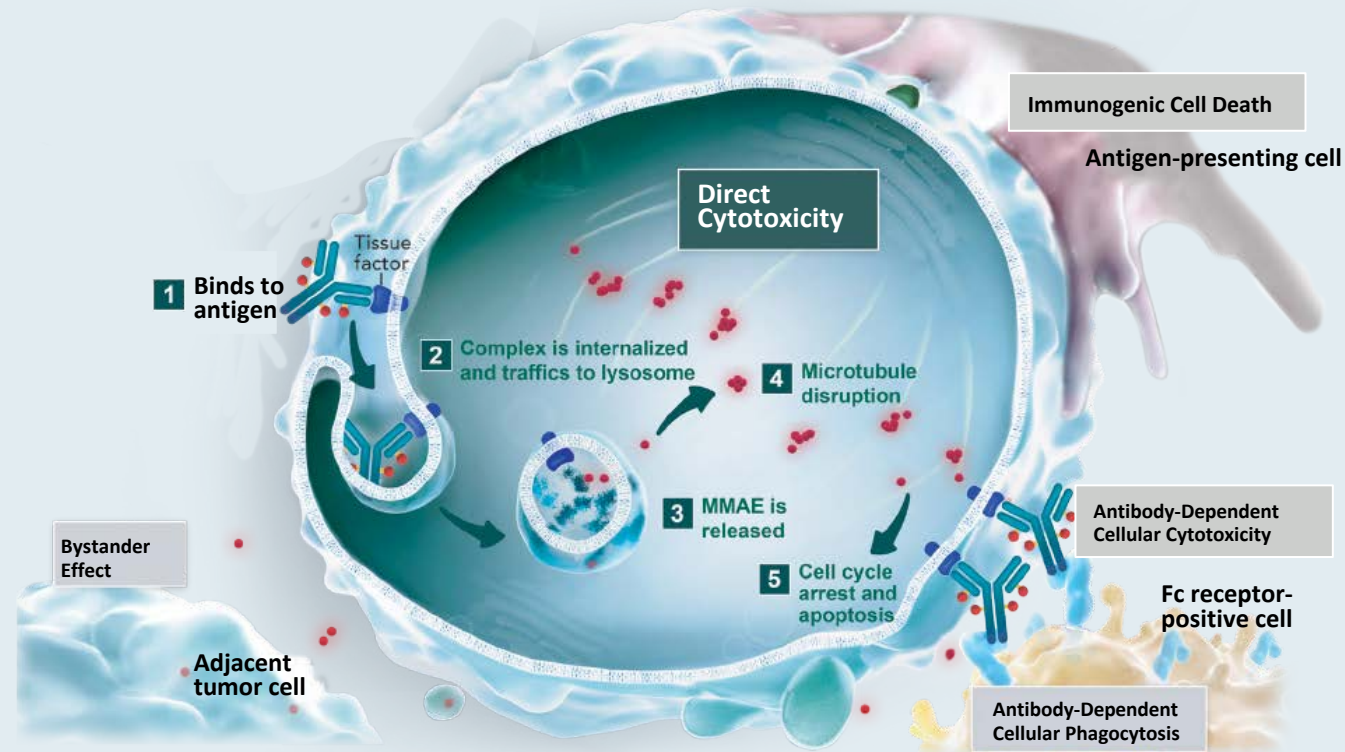
**Primary endpoint: ORR**

**Secondary endpoints include DOR, PFS, OS, DCR**

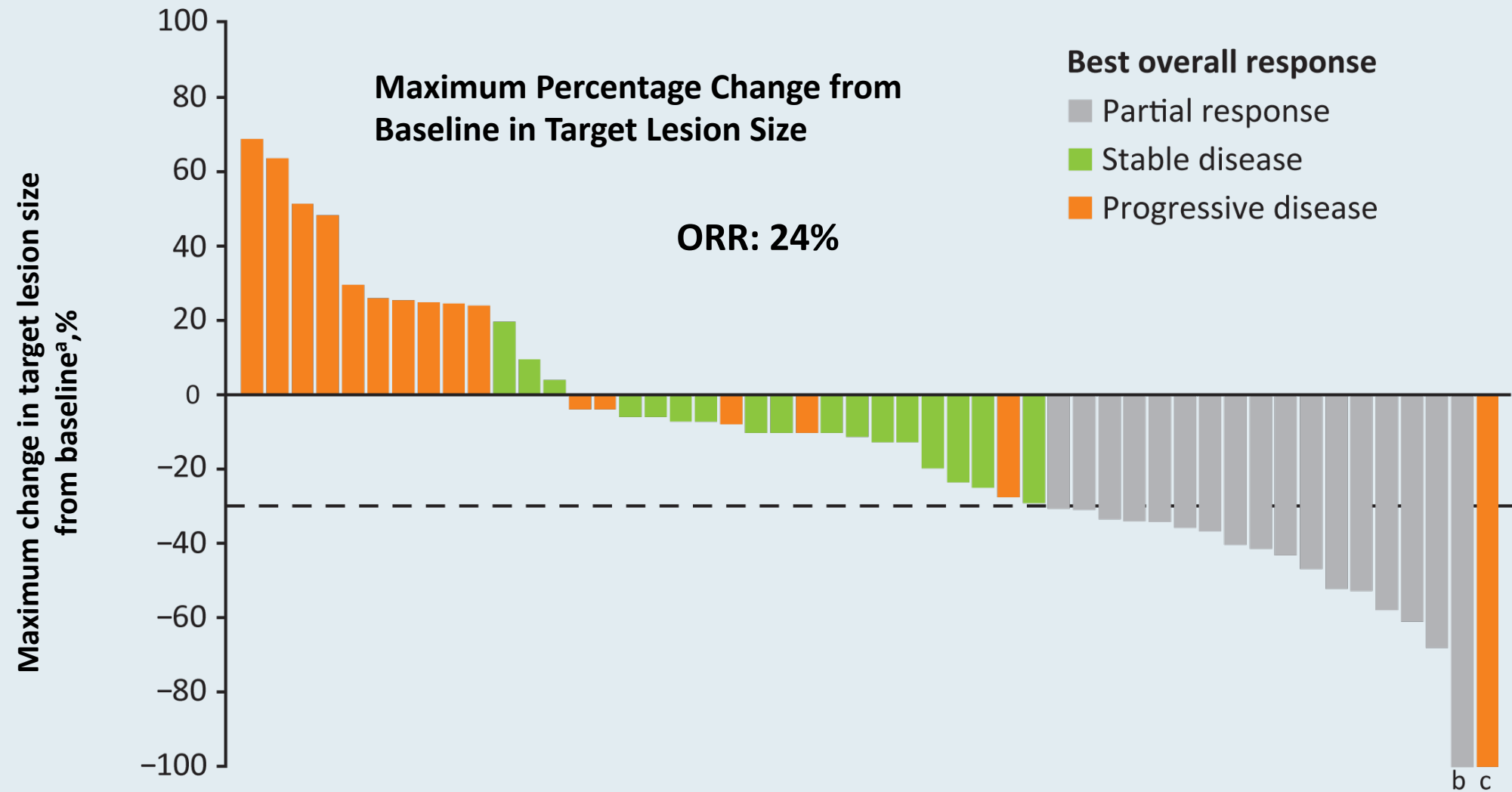
# **Tisotumab Vedotin and Other Novel Agents in Gynecologic Cancers**

# Mechanism of Action of Tisotumab Vedotin

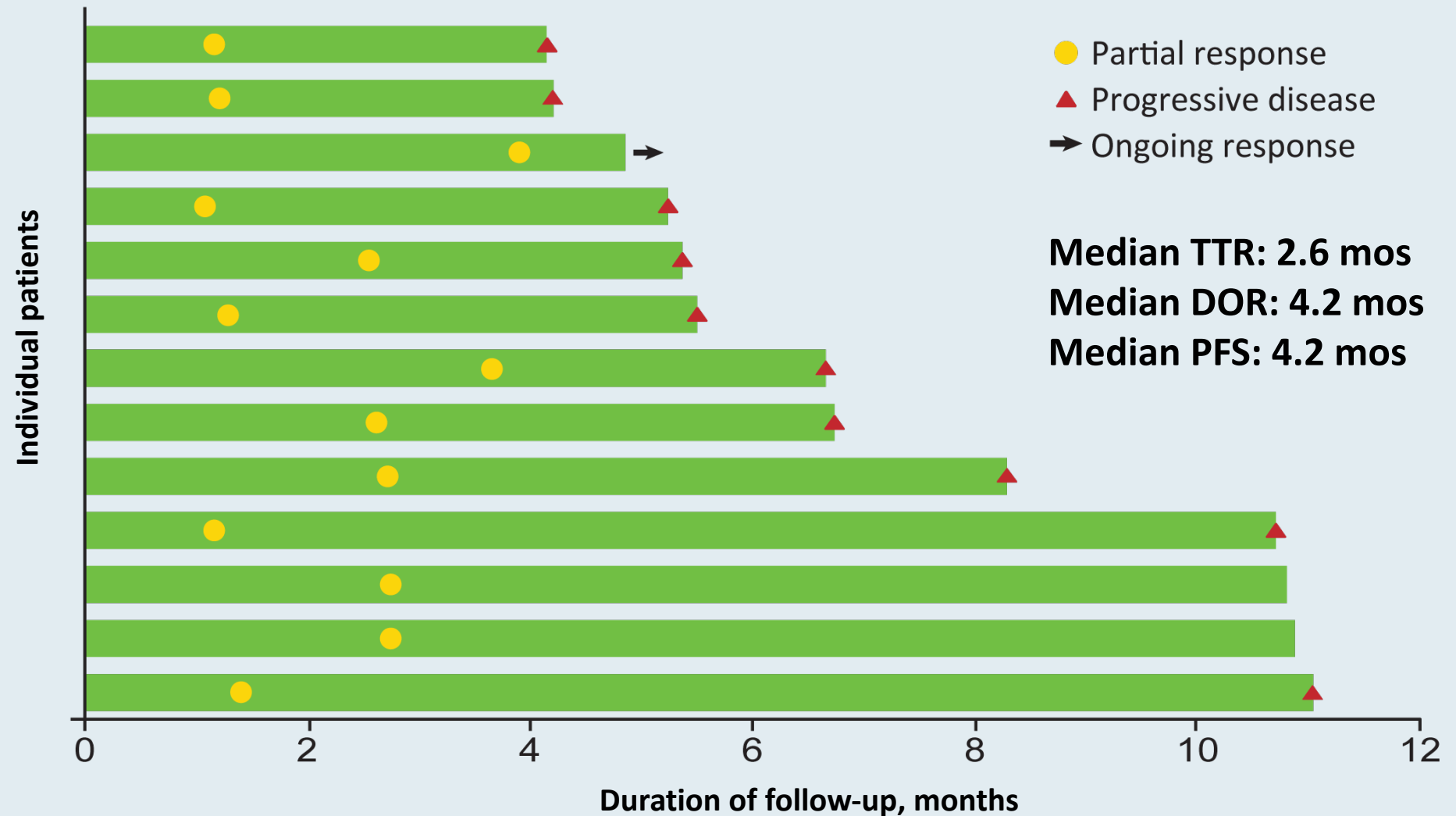
- Tissue factor (TF) is aberrantly expressed in a broad range of solid tumours, including cervical cancer,<sup>1,2</sup> and TF expression has been associated with higher tumour stage and grade, higher metastatic burden and poor prognosis<sup>2</sup>
- TF expression in cervical cancer makes TF a novel target for patients with cervical cancer
- ADC targets TF
  - Monoclonal Antibody targets TF
  - Payload: Microtubule disrupting MMAE
- Allowing for direct cytotoxicity and bystander killing, as well as antibody-dependent cellular cytotoxicity<sup>3,4</sup>



## innovaTV 201: Best Overall Response to TV

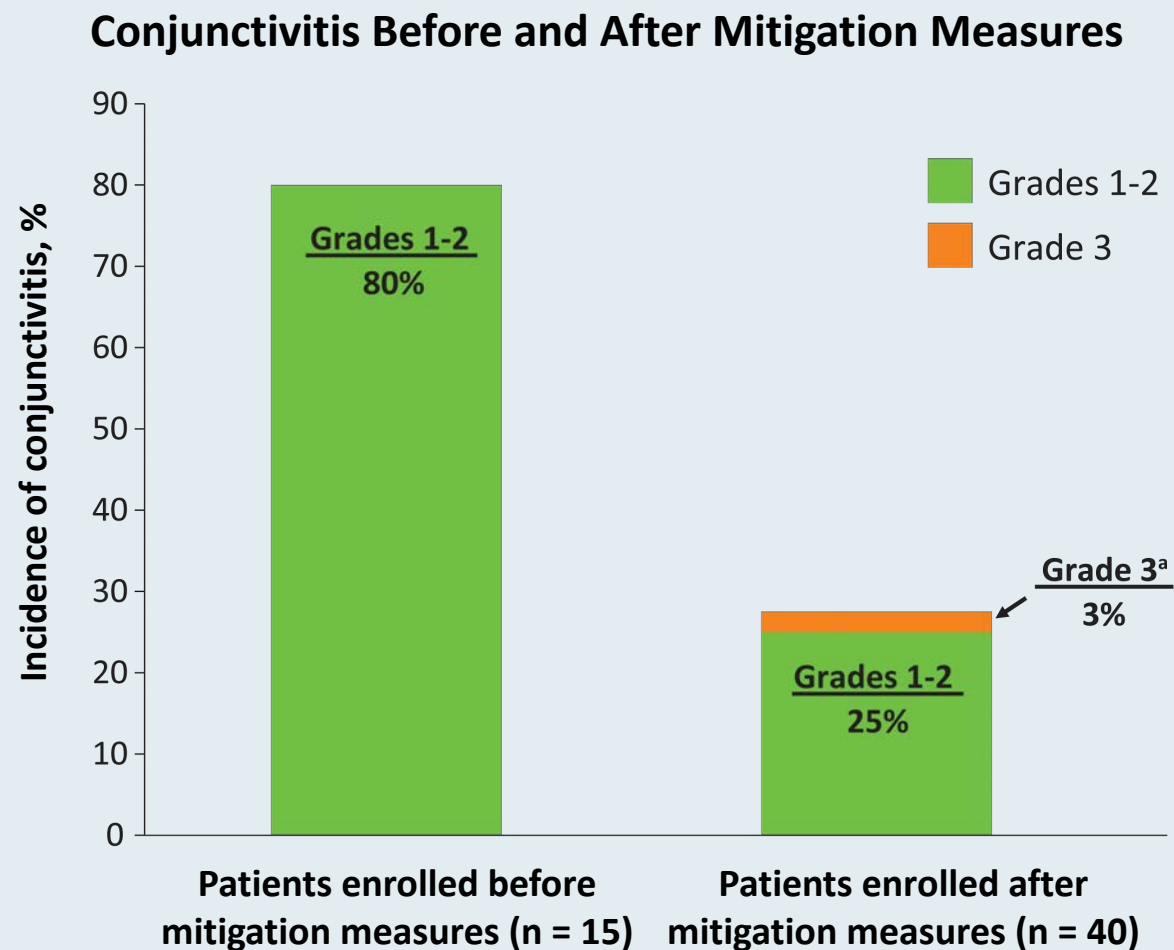


# innovaTV 201: Time to Response and Duration of Response in Patients with a Confirmed PR to TV



# innovaTV 201: Treatment-Emergent Adverse Events

Adverse events	N = 55	
	All grade	Grade ≥3
Fatigue	51%	9%
Nausea	49%	5%
Neuropathy	55%	11%
Bleeding-related AEs	73%	5%
Ocular AEs	65%	2%
Conjunctivitis	42%	2%
Dry eye	24%	0
Ulcerative keratitis	7%	0
Blepharitis	5%	0
Keratitis	5%	0



# Positive Topline Results with Tisotumab Vedotin in the Phase II InnovaTV 204 Trial

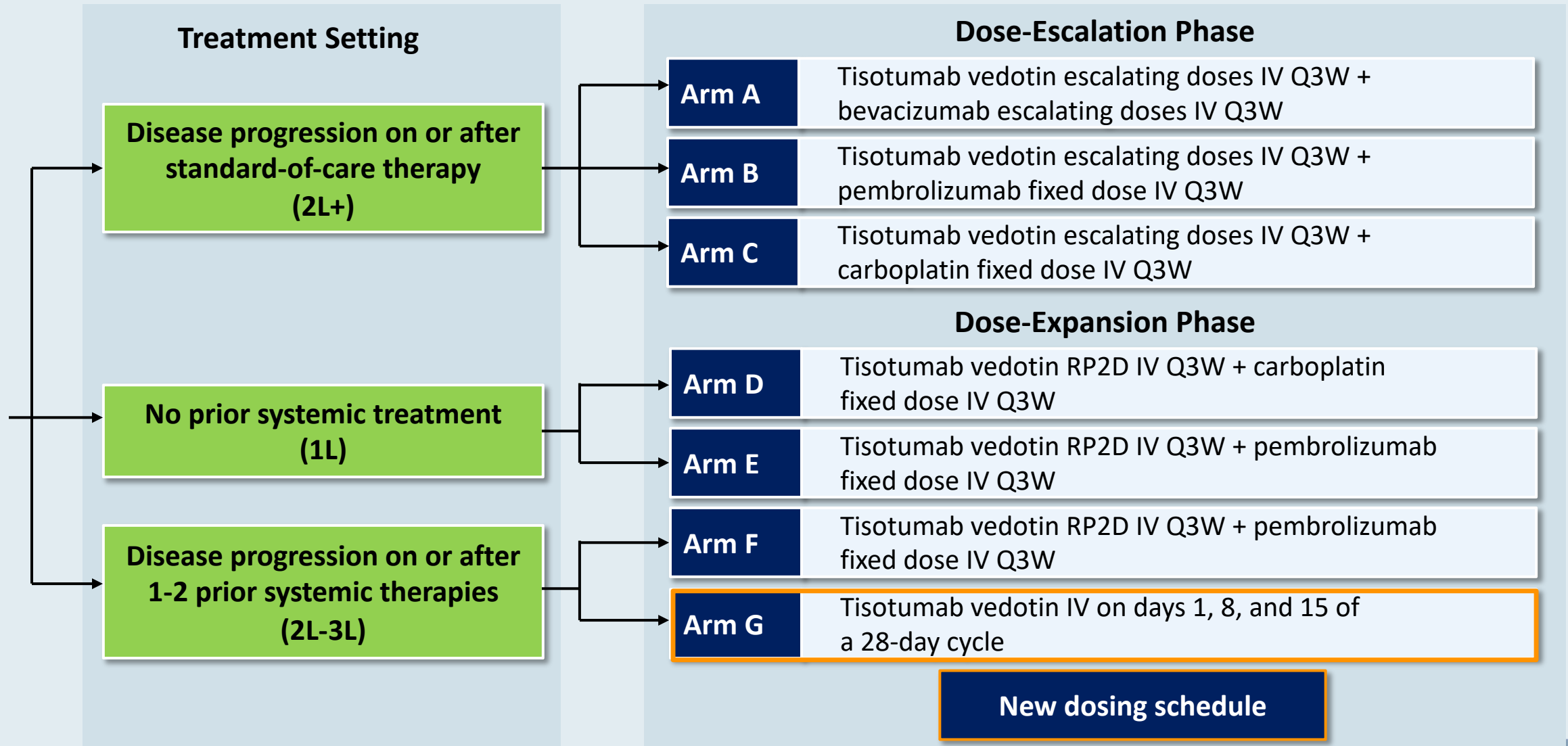
Press Release – June 30, 2020

“Positive topline results [were announced] from the single-arm, phase 2 innovaTV 204 trial evaluating tisotumab vedotin administered every 3 weeks for the treatment of patients who have relapsed or progressed on or after prior treatment for recurrent or metastatic cervical cancer.

Overall, 101 patients were treated with tisotumab vedotin at multiple centers across the US and Europe. Results from the trial demonstrated a 24% confirmed ORR by independent central review with a median DOR of 8.3 months. The most common treatment-related adverse events included alopecia, epistaxis, nausea, conjunctivitis, fatigue, and dry eye.”



# innovaTV 205 (GOG 3024): Recurrent or Metastatic Cervical Cancer



# Optimizing the Selection and Sequencing of Therapy for Patients with Chronic Lymphocytic Leukemia

*A Meet The Professor Series*

**Friday, September 4, 2020  
12:00 PM – 1:00 PM ET**

**Faculty**

**Kerry Rogers, MD**

**Moderator**

**Neil Love, MD**

***Thank you for joining us!***

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