

# *Meet The Professor*

## Immunotherapy and Novel Agents in Gynecologic Cancers

### **Bradley J Monk, MD**

Professor, Division of Gynecologic Oncology

Arizona Oncology (US Oncology Network)

University of Arizona College of Medicine

Creighton University School of Medicine at St Joseph's Hospital

Medical Director, US Oncology Network (McKesson) Gynecologic Program

Co-Director, GOG Partners

Member, Board of Directors, GOG Foundation

Phoenix, Arizona

## Commercial Support

These activities are supported by educational grants from Eisai Inc, Merck, Seagen Inc 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, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, Biodesix Inc, bioTheranostics Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Daiichi Sankyo Inc, Dendreon Pharmaceuticals Inc, Eisai Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Inc, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, Genentech, a member of the Roche Group, Genmab, 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, Karyopharm Therapeutics, 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, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Prometheus Laboratories Inc, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sandoz Inc, a Novartis Division, Sanofi Genzyme, Seagen Inc, Sirtex Medical Ltd, Spectrum Pharmaceuticals Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Oncology, Tesaro, A GSK Company, Teva Oncology, Tokai Pharmaceuticals Inc and Verastem Inc.

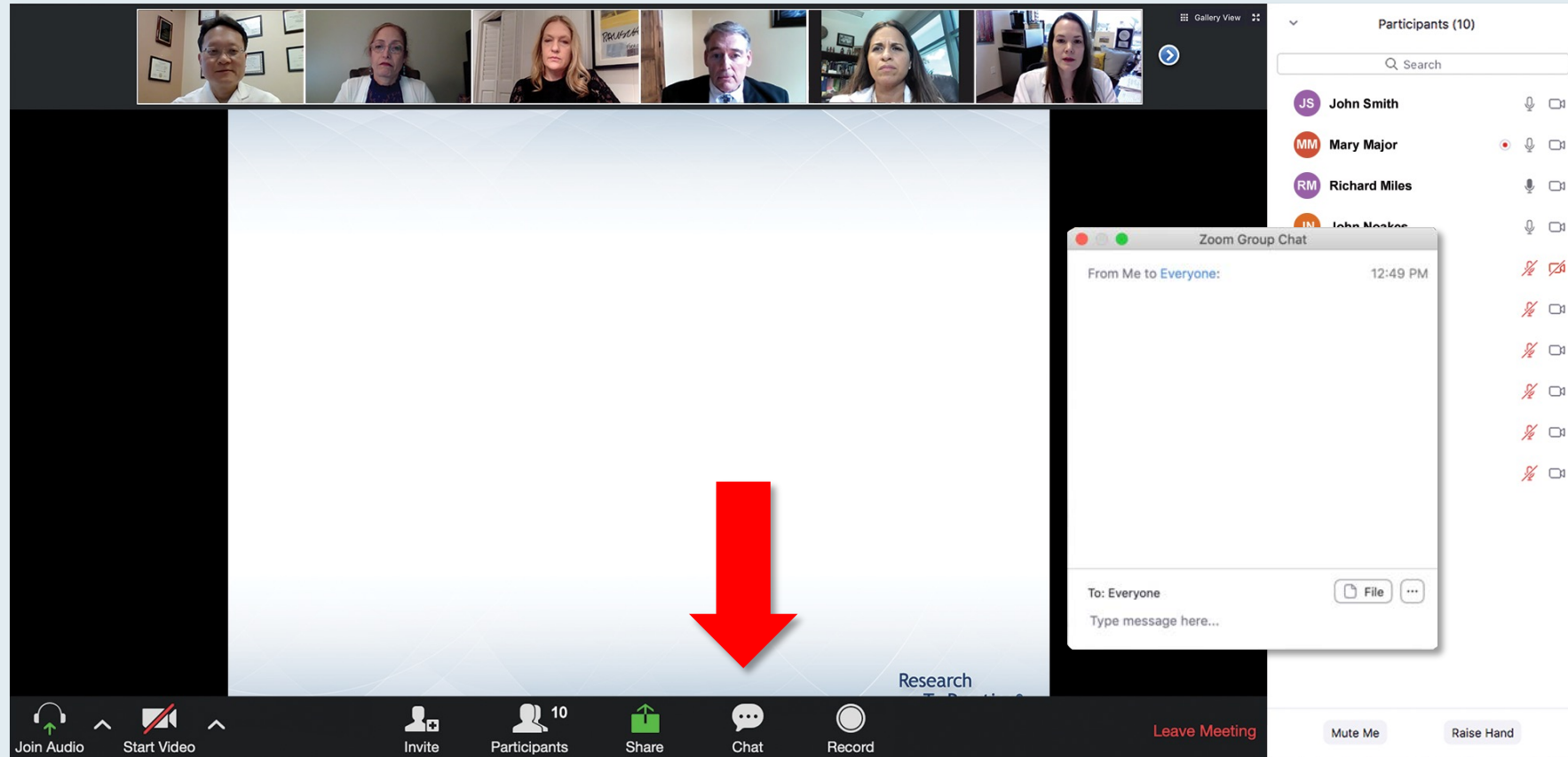
# Research To Practice CME Planning Committee Members, Staff and Reviewers

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

# Dr Monk — Disclosures

<b>Consulting Agreements</b>	Agenus Inc, Akeso Inc, Aravive Inc, AstraZeneca Pharmaceuticals LP, Clovis Oncology, Eisai Inc, Elevar Therapeutics, Genentech, a member of the Roche Group, Genmab, GOG Foundation Inc, Gradalis Inc, ImmunoGen Inc, Iovance Biotherapeutics, Karyopharm Therapeutics, McKesson/US Oncology Network, Merck, Mersana Therapeutics, Myriad Genetic Laboratories Inc, Novocure Inc, Pfizer Inc, Puma Biotechnology Inc, Seagen Inc, Sorrento Therapeutics, Tesaro, A GSK Company, VBL Therapeutics
<b>Speakers Bureau</b>	AstraZeneca Pharmaceuticals LP, Clovis Oncology, Eisai Inc, Genentech, a member of the Roche Group, Merck, Tesaro, A GSK Company

# We Encourage Clinicians in Practice to Submit Questions



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

# Familiarizing Yourself with the Zoom Interface

## How to answer poll questions

The screenshot shows a Zoom meeting interface. At the top, there are seven video thumbnails of participants. Below them is a slide with a poll question: "What is your usual treatment recommendation for a patient with MM followed by ASCT and maintenance experiences an asymptomatic relapse?". The slide lists ten options, including combinations of Carfilzomib, Pomalidomide, Elotuzumab, Daratumumab, and Ixazomib with or without dexamethasone. A "Quick Poll" window is overlaid on the slide, showing the same options with radio buttons for selection. The Zoom control bar at the bottom includes icons for Join Audio, Start Video, Invite, Participants (10), Share, Chat, Record, and Leave Meeting. On the right side, there is a "Participants (10)" list with names and icons for audio and video status.

Participants (10)

Search

- 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

What is your usual treatment recommendation for a patient with MM followed by ASCT and maintenance experiences an asymptomatic 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 USF Health Research To Practice®

Join Audio Start Video Invite Participants 10 Share Chat Record Leave Meeting Mute Me Raise Hand

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

# Familiarizing Yourself with the Zoom Interface

## Expand chat submission box

The screenshot shows a Zoom meeting interface. At the top, there are video thumbnails for participants: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the thumbnails is a slide titled "Meet The Professor Program Steering Committee" with six members listed:

- John N Allan, MD**  
Assistant Professor of Medicine  
Weill Cornell Medicine  
New York, New York
- Ian W Flinn, MD, PhD**  
Director of Lymphoma Research Program  
Sarah Cannon Research Institute  
Tennessee Oncology  
Nashville, Tennessee
- Steven Coutre, MD**  
Professor of Medicine (Hematology)  
Stanford University School of Medicine  
Stanford, California
- Prof John G Gribben, MD, DSc, FMedSci**  
Chair of Medical Oncology  
Barts Cancer Institute  
Queen Mary University of London  
Charterhouse Square  
London, United Kingdom
- Matthew S Davids, MD, MMSc**  
Associate Professor of Medicine  
Harvard Medical School  
Director of Clinical Research  
Division of Lymphoma  
Dana-Farber Cancer Institute  
Boston, Massachusetts
- Brian T Hill, MD, PhD**  
Director, Lymphoid Malignancy Program  
Cleveland Clinic Taussig Cancer Institute  
Cleveland, Ohio

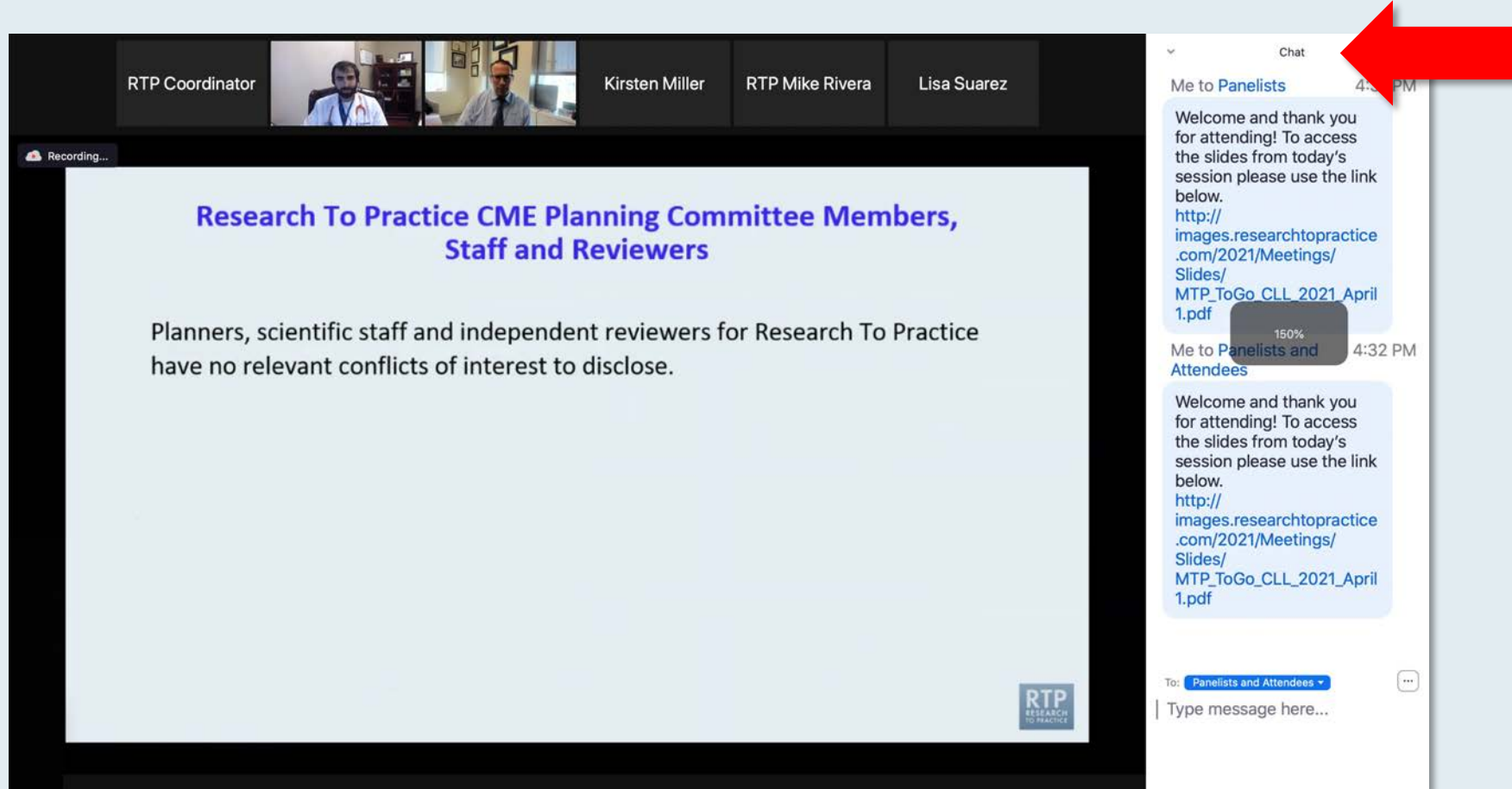
On the right side, there is a chat window. The chat history shows two messages from "Me to Panelists" and "Me to Panelists and Attendees" at 4:31 PM and 4:32 PM respectively. The messages contain a welcome message and a link to a PDF file: [http://images.researchtopractice.com/2021/Meetings/Slides/2021/Meetings/Slides/MTP\\_ToGo\\_CLL\\_2021\\_April1.pdf](http://images.researchtopractice.com/2021/Meetings/Slides/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April1.pdf). At the bottom of the chat window, there is a "To:" dropdown menu set to "Panelists and Attendees" and a text input field labeled "Type message here...". A red arrow points to the white line above the text input field, indicating how to expand the submission box.

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



# Familiarizing Yourself with the Zoom Interface

## Increase chat font size



The screenshot displays a Zoom meeting interface. At the top, there are video thumbnails for participants: RTP Coordinator, Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the thumbnails is a slide titled "Research To Practice CME Planning Committee Members, Staff and Reviewers". The slide content reads: "Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose." A "Recording..." indicator is visible in the top left corner of the slide area. On the right side, the Zoom chat window is open, showing a message from "Me to Panelists" at 4:32 PM. The message text is: "Welcome and thank you for attending! To access the slides from today's session please use the link below. http://images.researchtopractice.com/2021/Meetings/Slides/MTP\_ToGo\_CLL\_2021\_April 1.pdf". A red arrow points to the chat window, specifically to the font size adjustment icon (a small square with a plus sign) located above the message text. The chat window also shows a "150%" font size indicator and a "Type message here..." input field at the bottom.

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

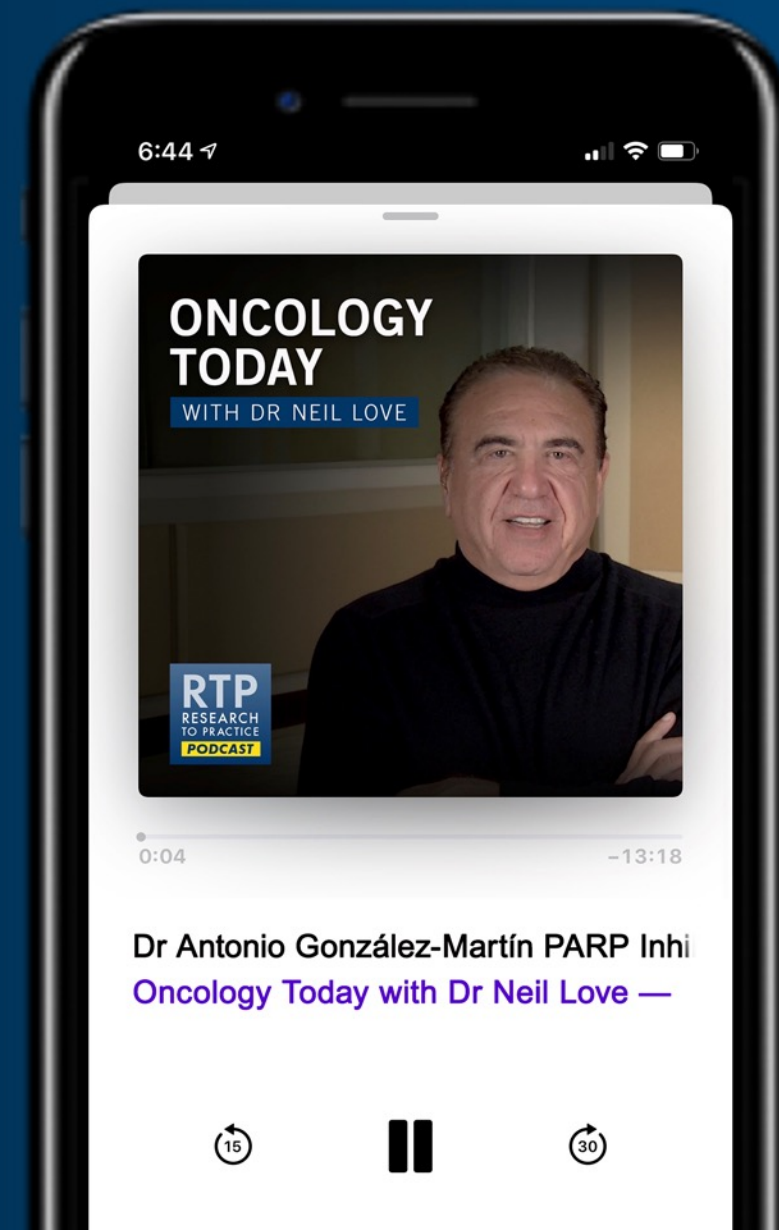
# ONCOLOGY TODAY

WITH DR NEIL LOVE

## PARP Inhibitors in Ovarian Cancer



DR ANTONIO GONZÁLEZ-MARTÍN  
CLÍNICA UNIVERSIDAD DE NAVARRA



# **Ask the Expert: Clinical Investigators Provide Perspectives on the Management of Renal Cell Carcinoma**

**Tuesday, April 6, 2021  
12:00 PM – 1:00 PM ET**

## **Faculty**

**Sumanta K Pal, MD**

## **Moderator**

**Neil Love, MD**

# ***Meet The Professor***

## **Optimizing the Selection and Sequencing of Therapy for Patients with Advanced Gastrointestinal Cancers**

**Thursday, April 8, 2021  
5:00 PM – 6:00 PM ET**

### **Faculty**

**Dirk Arnold, MD, PhD**

### **Moderator**

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# **Ask the Investigators: Applying Emerging Clinical Research to the Care of Patients with Gastroesophageal Cancers**

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Yelena Y Janjigian, MD**

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## Management of Chronic Lymphocytic Leukemia

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# Dissecting the Decision: Investigator Perspectives on Key Issues in the Management of Common Cancers

*Independent Satellite Symposia (ISS) Hosted in Conjunction with the 2021 Oncology Nursing Society (ONS) Annual Congress*

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

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



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Member, Board of Directors, GOG Foundation

Phoenix, Arizona

# 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



**Bradley J Monk, MD**  
Professor, Division of Gynecologic Oncology  
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Phoenix, Arizona



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



**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



**Gottfried E Konecny, MD**  
Professor-in-Residence  
Division of Hematology-Oncology  
Department of Medicine, David Geffen  
School of Medicine  
UCLA Medical Center  
Los Angeles, California

# Meet The Professor Program Participating Faculty



**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



**Brian M Slomovitz, MD**

Professor, Department of Obstetrics  
and Gynecology  
Florida International University  
Miami, Florida



**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

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Participants (10)

Search

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

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

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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

1. Carfilzomib +/- dexamethasone

2. Pomalidomide +/- dexamethasone

3. Carfilzomib + pomalidomide +/- dexamethasone

4. Elotuzumab + lenalidomide +/- dexamethasone

5. Elotuzumab + pomalidomide +/- dexamethasone

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9. Ixazomib + Rd

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Co-provided by USF Health Research To Practice®

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Share

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Leave Meeting

Mute Me

Raise Hand

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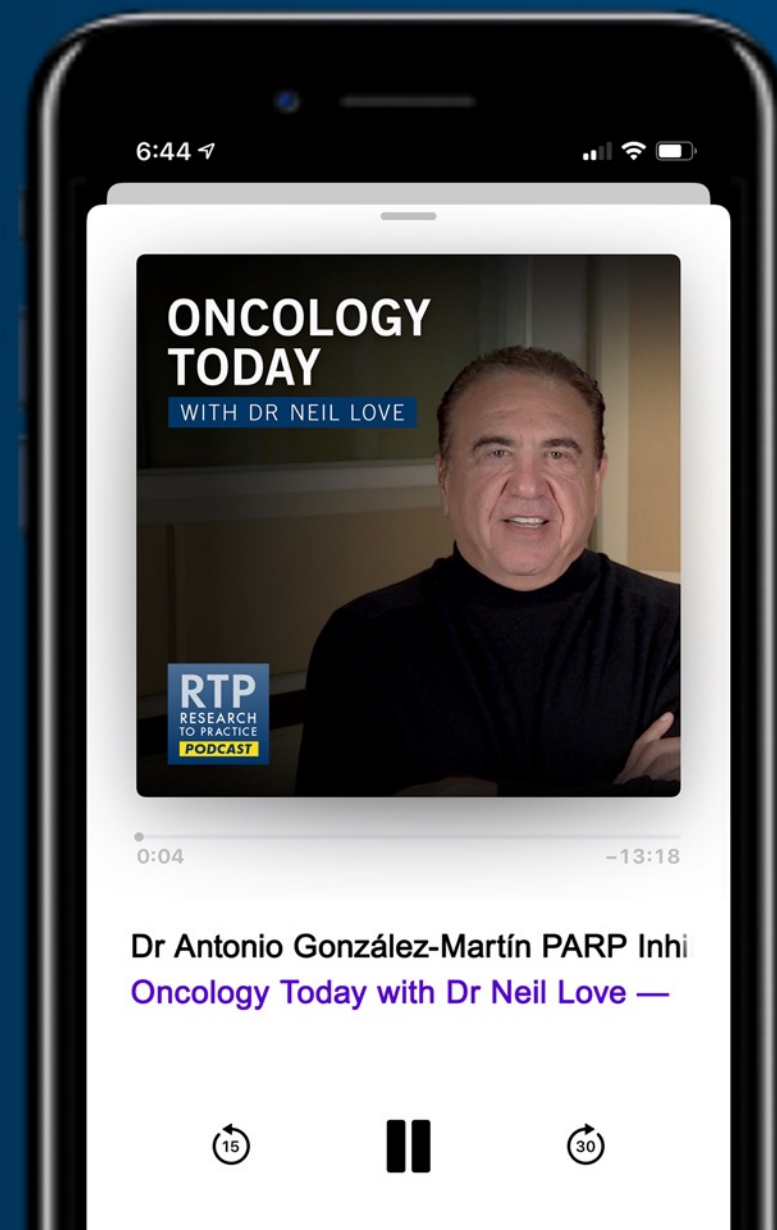
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**Spencer Henick Bachow, MD**

Hematologist/Oncologist at Lynn Cancer Institute  
Affiliate Assistant Professor of Medicine at FAU  
Schmidt College of Medicine  
Boca Raton, Florida



**Linda R Duska, MD, MPH**

Professor of Obstetrics and Gynecology  
Division of Gynecologic Oncology  
University of Virginia School of Medicine  
Charlottesville, Virginia



**John Yang, MD**

Chief of Hematology/Oncology  
Steward/St Anne's Hospital  
Westwood, Massachusetts

# Meet The Professor with Dr Monk

## **MODULE 1: Cases from General Medical Oncology Practices**

- Dr Duska: A 46-year-old woman with recurrent endometrioid adenocarcinoma
- Dr Bachow: A 56-year-old woman with metastatic carcinosarcoma — No targetable mutations, PD-L1 0, TMB low
- Dr Yang: A 70-year-old woman with MSS, ER-positive metastatic endometrial cancer
- Dr Duska: A 48-year-old woman with metastatic cervical cancer (Parts 1 and 2)
- Dr Duska: A 52-year-old woman with metastatic cervical cancer (Parts 1 and 2)

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

## **MODULE 3: Gynecologic Oncology Journal Club with Dr Monk**

## **MODULE 4: Key Recent Data Sets**

# Phase III Trial of Cemiplimab Monotherapy in Advanced Cervical Cancer Stopped Early for Positive Result on Overall Survival

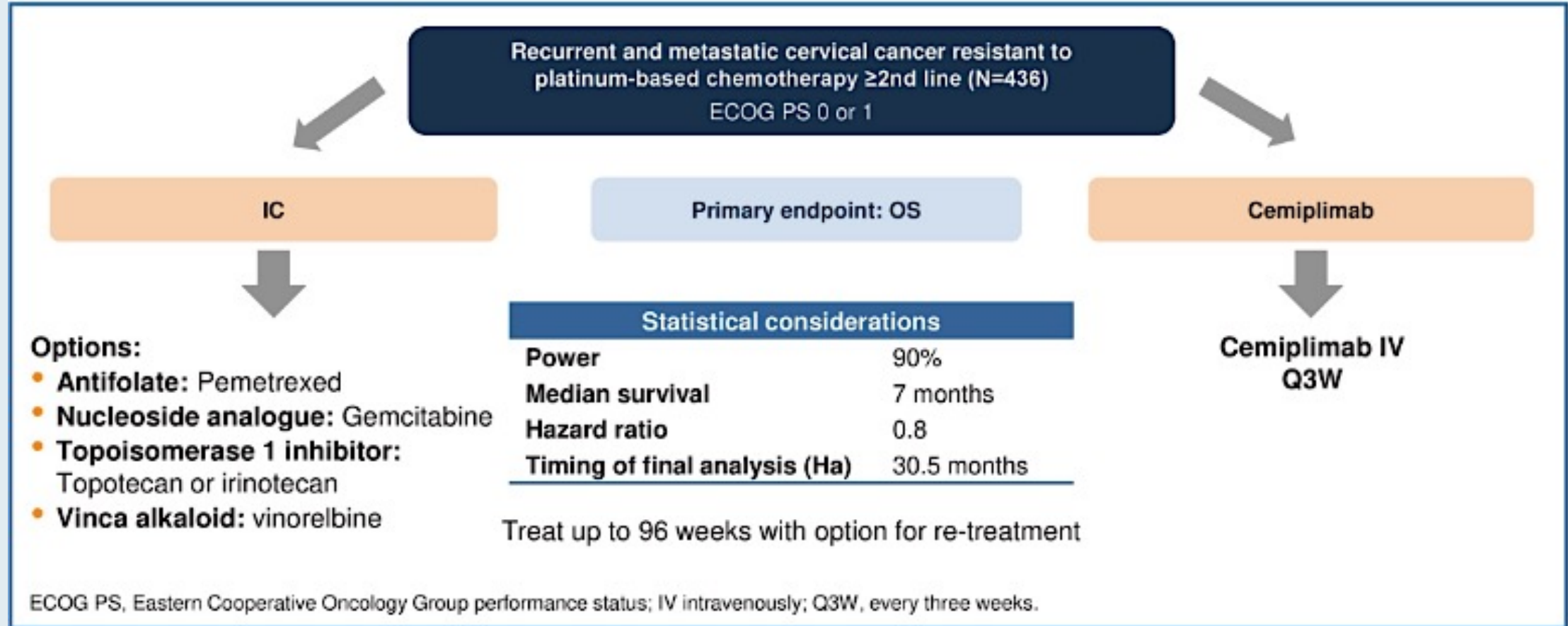
Press Release – March 15, 2021

“Regeneron Pharmaceuticals, Inc. and Sanofi today announced positive results demonstrating an overall survival (OS) benefit from the Phase 3 trial investigating the PD-1 inhibitor cemiplimab monotherapy compared to chemotherapy, in patients previously treated with chemotherapy whose cervical cancer is recurrent or metastatic. The trial will be stopped early based on a unanimous recommendation by the Independent Data Monitoring Committee (IDMC), and the data will form the basis of regulatory submissions in 2021 ...

“This is the largest Phase 3 randomized clinical trial in advanced cervical cancer and included women (median age: 51 years) with either squamous cell carcinoma or adenocarcinoma. Patients were randomized to receive cemiplimab monotherapy (350 mg every 3 weeks) or an investigator's choice of commonly used chemotherapy (pemetrexed, vinorelbine, topotecan, irinotecan or gemcitabine). Compared to chemotherapy, patients receiving cemiplimab experienced: Total population: 31% reduced risk of death; Squamous cell carcinoma: 27% reduced risk of death; Adenocarcinoma: 44% reduced risk of death. The primary endpoint for the trial was OS, analyzed first among patients with squamous cell carcinoma, then in the total population...

“Detailed results will be presented at an upcoming medical meeting.”

# Phase III Trial of Cemiplimab Monotherapy in Advanced Cervical Cancer: Study Design



IC = investigator's choice



# Meet The Professor with Dr Monk

## MODULE 1: Cases from General Medical Oncology Practices

- Dr Duska: A 46-year-old woman with recurrent endometrioid adenocarcinoma
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## MODULE 2: Beyond the Guidelines – Clinical Investigator Approaches to Common Clinical Scenarios

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## MODULE 4: Key Recent Data Sets

# Case Presentation – Dr Duska: A 46-year-old woman with recurrent endometrioid adenocarcinoma



**Dr Linda Duska**

- PMH: Asthma, dyslipidemia, GERD, HTN, diabetes, obesity (BMI 48)
- Abnormal uterine bleeding → Endometrial biopsy: FIGO Grade 1 endometrioid adenocarcinoma
- ELAP TAHBSO, with bilateral pelvic lymph node dissection
  - Pathology: Grade 2 endometrioid adenocarcinoma, 22 negative lymph nodes
  - Loss of expression of MLH1 and PMS2
- Post-operative vaginal cuff RT
- 10 months later: New RLE edema and right hydroureter
- CT: Bilateral pelvic masses, right inguinal lymphadenopathy → US-guided biopsy: recurrent disease
- Carboplatin/paclitaxel x 7, with PR but subsequent PD
- Dostarlimab on the GARNET trial x 2 years, with PR as best response
  - Q3 weeks for first 4 cycles, then Q6 weeks thereafter

# Case Presentation – Dr Bachow: A 56-year-old woman with metastatic carcinosarcoma with no targetable mutations – PD-L1: 0, TMB low



**Dr Spencer Bachow**

- 10/2019: Cytoreductive TAHBSO, with peritoneal biopsies
  - Carcinosarcoma mixed Mullerian tumor (pT3a N2a MX)
- CT chest/abdomen/pelvis: Lung nodules and pelvic lymph nodes
- Carboplatin/paclitaxel x 6 (Uninsured, unable to obtain bevacizumab), with PR
- Consolidative RT to pelvis
- 6 months later PET CT: Diffuse metastatic disease above and below diaphragm
- NGS: No targetable mutations, PD-L1 0, TMB low; Germline testing: Negative
- Lenvatinib/pembrolizumab, with hypothyroidism (levothyroxine)

## Questions

- Is lenvatinib/pembrolizumab an option in relapsed carcinosarcoma of the uterus? How many of these patients were included in the original trials? What is your experience with response and toxicity of these agents in patients with carcinosarcomas of the uterus?
- For lenvatinib/pembrolizumab, do you start at the highest dose or a lower dose of lenvatinib? What side effects do you look for? How quickly do you see responses in these patients?

# Case Presentation – Dr Yang: A 70-year-old woman with microsatellite-stable, ER-positive metastatic endometrial cancer



**Dr John Yang**

- PMH: Morbid obesity (BMI 46), O<sub>2</sub>-dependent chronic hypoxia
- Heavily pretreated for metastatic endometrial cancer past 6 years
  - Carboplatin/paclitaxel, gemcitabine, liposomal doxorubicin, *nab*-paclitaxel, with response to each drug
- Currently, on bevacizumab with stable disease
  - ECOG PS: 2-3

## Questions

- Once her disease progresses, what is the potential role for lenvatinib/pembrolizumab? How well tolerated is the combination?
- Can either drug be given as a single agent for a patient with compromised performance status?

# Case Presentation – Dr Duska: A 48-year-old woman with metastatic cervical cancer – Part 1



**Dr Linda Duska**

- Heavy post-coital bleeding → Pelvic exam: Exophytic 4-cm cervical mass, with no palpable extra-cervical disease
- Biopsies: Squamous cell carcinoma
- Radical abdominal hysterectomy with BSO, BPLND
- Final Pathology: Invasive squamous cell carcinoma, poorly differentiated with 1 positive parametrial node, 32 negative pelvic nodes (FIGO Stage IIIC2)

## Case Presentation – Dr Duska: A 48-year-old woman with metastatic cervical cancer – Part 2



**Dr Linda Duska**

- Heavy post-coital bleeding → Pelvic exam: Exophytic 4-cm cervical mass, with no palpable extra-cervical disease
- Biopsies: Squamous cell carcinoma
- Radical abdominal hysterectomy with BSO, BPLND
- Final Pathology: Invasive squamous cell carcinoma, poorly differentiated with 1 positive parametrial node, 32 negative pelvic nodes (FIGO Stage IIIC2)
- ***Whole pelvic RT 5040 cGy with weekly cisplatin***
- ***2 months later: Presents to ER with right flank pain***
  - ***CT and PET: Peritoneal disease***
- ***Enrolled on BEATcc Phase III study: Receives platinum chemo + paclitaxel/bevacizumab + atezolizumab***
  - ***Good response after 4 cycles***

# Case Presentation – Dr Duska: A 48-year-old woman with metastatic cervical cancer



Dr Linda Duska



# Case Presentation – Dr Duska: A 52-year-old woman with metastatic cervical cancer – Part 1



**Dr Linda Duska**

- PMH: Insomnia, vertigo, arthritis, sleep apnea, HTN, obesity (BMI 40)
- Postmenopausal uterine bleeding → Evaluation: Cervical mass
- PET/CT, MRI and biopsy: Adenosquamous carcinoma consistent with cervical primary
- Chemoradiation with cisplatin x 5 plus HDR brachytherapy, with good response
- 10 months later: CT/PET/biopsy confirms recurrent disease in right pelvic node
- Carboplatin/paclitaxel/bevacizumab x 6 → RT, with no residual disease
- 4 months later during routine surveillance: Multiple pulmonary nodules staining positive for PD-L1
- Pembrolizumab x 6, with CT showing increase in size of pulmonary nodules

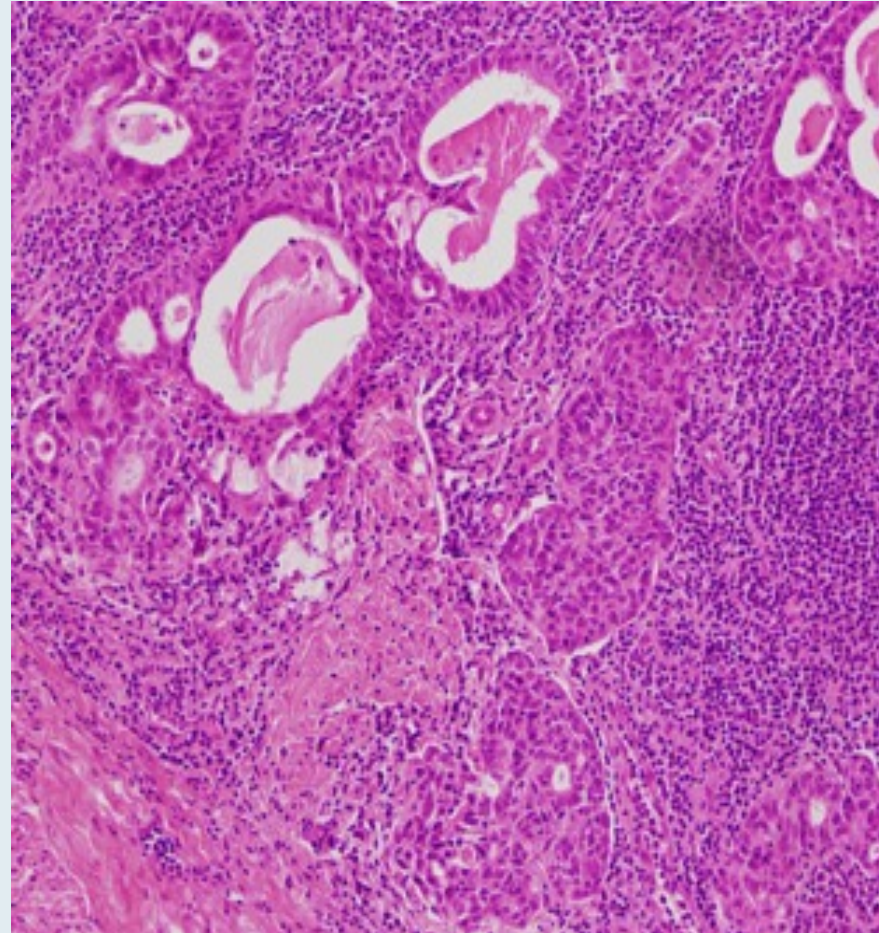


# Case Presentation – Dr Duska: A 52-year-old woman with metastatic cervical cancer

## Adenosquamous carcinoma of the primary



Dr Linda Duska



# Case Presentation – Dr Duska: A 52-year-old woman with metastatic cervical cancer – Part 2



Dr Linda Duska

- PMH: Insomnia, vertigo, arthritis, sleep apnea, HTN, obesity (BMI: 40)
- Postmenopausal uterine bleeding → Evaluation: Cervical mass
- PET/CT, MRI and biopsy: Adenosquamous carcinoma consistent with cervical primary
- Chemoradiation with cisplatin x 5 plus HDR brachytherapy, with good response
- 10 months later: CT/PET/biopsy confirms recurrent disease in right pelvic node
- Carboplatin/paclitaxel/bevacizumab x 6 → RT, with no residual disease
- 4 months later during routine surveillance: Multiple pulmonary nodules staining positive for PD-L1
- Pembrolizumab x 6, with CT showing increase in size of pulmonary nodules

## Questions

- ***What do you anticipate the community-based side effect rate for eye toxicity is with tisetumab vedotin compared to what was observed on the clinical trial?***
- ***Do you expect the response rate to tisetumab vedotin observed in the study to be reproducible in the community?***

# Meet The Professor with Dr Monk

## MODULE 1: Cases from General Medical Oncology Practices

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

## MODULE 3: Gynecologic Oncology Journal Club with Dr Monk

- Evidence-based treatment paradigm for invasive cervical carcinoma (CC)
- Patient characteristics, treatment patterns and clinical outcomes with previously treated recurrent or metastatic CC
- innovaTV 204 trial: Tisotumab vedotin for previously treated recurrent or metastatic CC
- innovaTV 205 trial: Tisotumab vedotin  $\pm$  bevacizumab, pembrolizumab or carboplatin for recurrent or metastatic CC
- CALLA trial results: Concurrent and adjuvant durvalumab with chemoRT versus chemoRT alone for locally advanced CC
- Anti-PD-1 balstilimab alone or in combination with anti-CTLA-4 zalifrelimab for recurrent or metastatic CC
- Phase II SUMMIT basket trial: Neratinib for patients with metastatic CC with HER2 mutation
- Immune checkpoint inhibitors as switch or continuation maintenance therapy for solid tumors
- Incorporation of whole pelvic radiation into treatment of Stage IVB CC
- Sequential chemotherapy for early-stage, post-radical hysterectomy CC: Are the STARS aligned?

## MODULE 4: Key Recent Data Sets

**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 metastatic endometrial cancer who experienced disease progression on carboplatin/paclitaxel if their disease was microsatellite stable (MSS)?



**Dr Birrer**

**Lenvatinib/  
pembrolizumab**



**Dr Penson**

**Lenvatinib/  
pembrolizumab**



**Dr Coleman**

**Lenvatinib/  
pembrolizumab**



**Dr Powell**

**Lenvatinib/  
pembrolizumab**



**Dr Oaknin**

**Lenvatinib/  
pembrolizumab**



**Dr Slomovitz**

**Lenvatinib/  
pembrolizumab**



**Dr O'Malley**

**Lenvatinib/  
pembrolizumab**



**Dr Tewari**

**Lenvatinib/  
pembrolizumab**

# 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 MSI high?



**Dr Birrer**

**Pembrolizumab**



**Dr Penson**

**Pembrolizumab**



**Dr Coleman**

**Pembrolizumab**



**Dr Powell**

**Pembrolizumab**



**Dr Oaknin**

**Dostarlimab**



**Dr Slomovitz**

**Pembrolizumab**



**Dr O'Malley**









**Pembrolizumab**



**Dr Tewari**

**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?

 <b>Dr Birrer</b>	<b>Second line</b>	 <b>Dr Penson</b>	<b>First line</b>
 <b>Dr Coleman</b>	<b>Second line</b>	 <b>Dr Powell</b>	<b>Second line</b>
 <b>Dr Oaknin</b>	<b>Second line</b>	 <b>Dr Slomovitz</b>	<b>Second line</b>
 <b>Dr O'Malley</b>	<b>First line</b>	 <b>Dr Tewari</b>	<b>Second line</b>



For a patient with MSI-high metastatic endometrial cancer for whom you are going to initiate an anti-PD-1/PD-L1 antibody, which regimen do you generally use?



**Dr Birrer**

**Pembrolizumab**



**Dr Penson**

**Pembrolizumab**



**Dr Coleman**

**Pembrolizumab**



**Dr Powell**

**Pembrolizumab**



**Dr Oaknin**

**Dostarlimab**



**Dr Slomovitz**

**Pembrolizumab**



**Dr O'Malley**

**Pembrolizumab**



**Dr Tewari**

**Pembrolizumab**

**Regulatory and reimbursement issues aside, 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. Cemiplimab
5. 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?



**Dr Birrer**

**Pembrolizumab**



**Dr Penson**

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



**Dr Coleman**

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



**Dr Powell**

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



**Dr Oaknin**

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



**Dr Slomovitz**

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



**Dr O'Malley**

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







**Dr Tewari**

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

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

1. Pembrolizumab
2. Cemiplimab
3. Tisetumab vedotin
4. Other

# 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?

 <b>Dr Birrer</b>	<b>Well tolerated except for epistasis</b>	 <b>Dr Penson</b>	<b>Excited by it</b>
 <b>Dr Coleman</b>	<b>Similar to other single-agent chemotherapy</b>	 <b>Dr Powell</b>	<b>Reasonable toxicity</b>
 <b>Dr Oaknin</b>	<b>Moderate toxicity</b>	 <b>Dr Slomovitz</b>	<b>Well tolerated; ocular side effects</b>
 <b>Dr O'Malley</b>	<b>Reasonable toxicity</b>	 <b>Dr Tewari</b>	<b>Relatively well tolerated so far</b>

# 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?

 <b>Dr Birrer</b>	<b>Yes</b>	 <b>Dr Penson</b>	<b>Yes</b>
 <b>Dr Coleman</b>	<b>Yes</b>	 <b>Dr Powell</b>	<b>Yes</b>
 <b>Dr Oaknin</b>	<b>No</b>	 <b>Dr Slomovitz</b>	<b>No</b>
 <b>Dr O'Malley</b>	<b>Yes</b>	 <b>Dr Tewari</b>	<b>No</b>

# Meet The Professor with Dr Monk

## MODULE 1: Cases from General Medical Oncology Practices

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

## MODULE 3: Gynecologic Oncology Journal Club with Dr Monk

- Evidence-based treatment paradigm for invasive cervical carcinoma (CC)
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## MODULE 4: Key Recent Data Sets



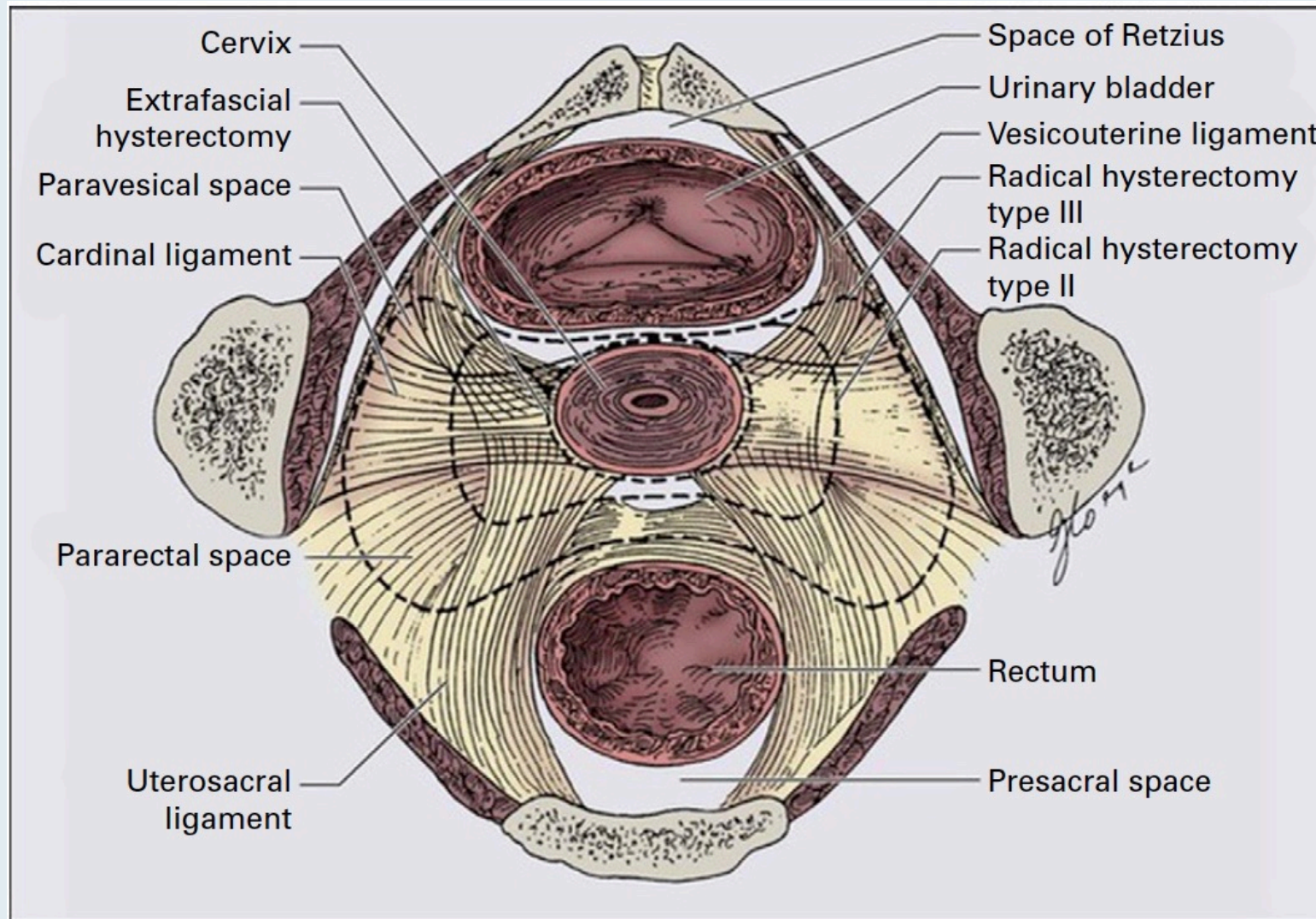
**SPECIAL SERIES: ADVANCES IN THE MANAGEMENT OF GYNECOLOGIC CANCERS**

# **Evidence-Based Treatment Paradigms for Management of Invasive Cervical Carcinoma**

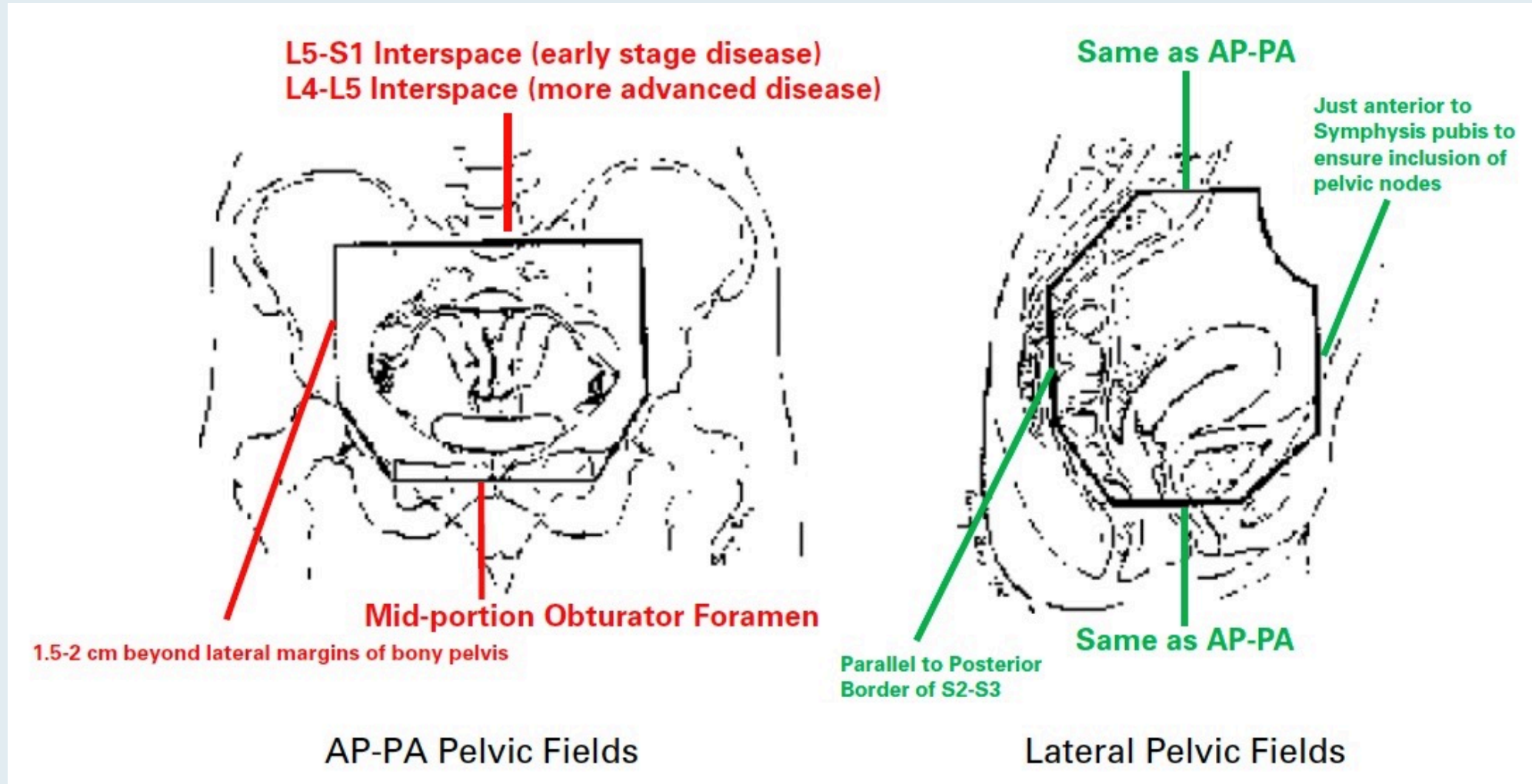
**Krishnansu S. Tewari, MD<sup>1</sup> and Bradley J. Monk, MD<sup>2,3</sup>**

***J Clin Oncol 2019;37(27):2472-89.***

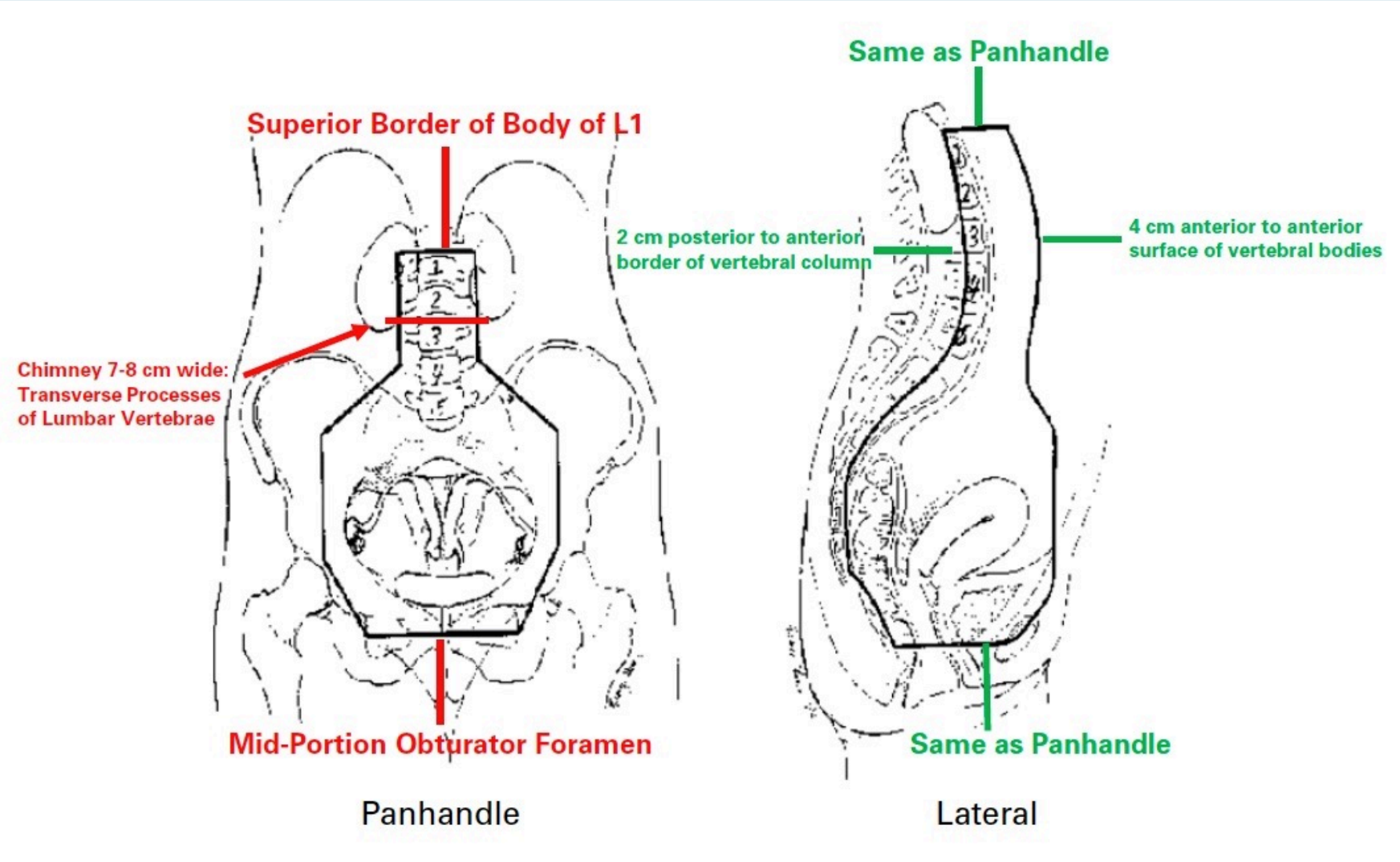
# Pelvic Anatomy and Types of Hysterectomy



# Whole Pelvic Radiation



# Extended Field (Para-aortic) Radiation



# Brachytherapy

## POINT A:

Referenced to the uterus.

Points A Right and Left are located 2 cm lateral to the internal os measured perpendicular to the inter-uterine canal. The internal os is 2 cm superior to the external os. Therefore Point A represents the parametria.

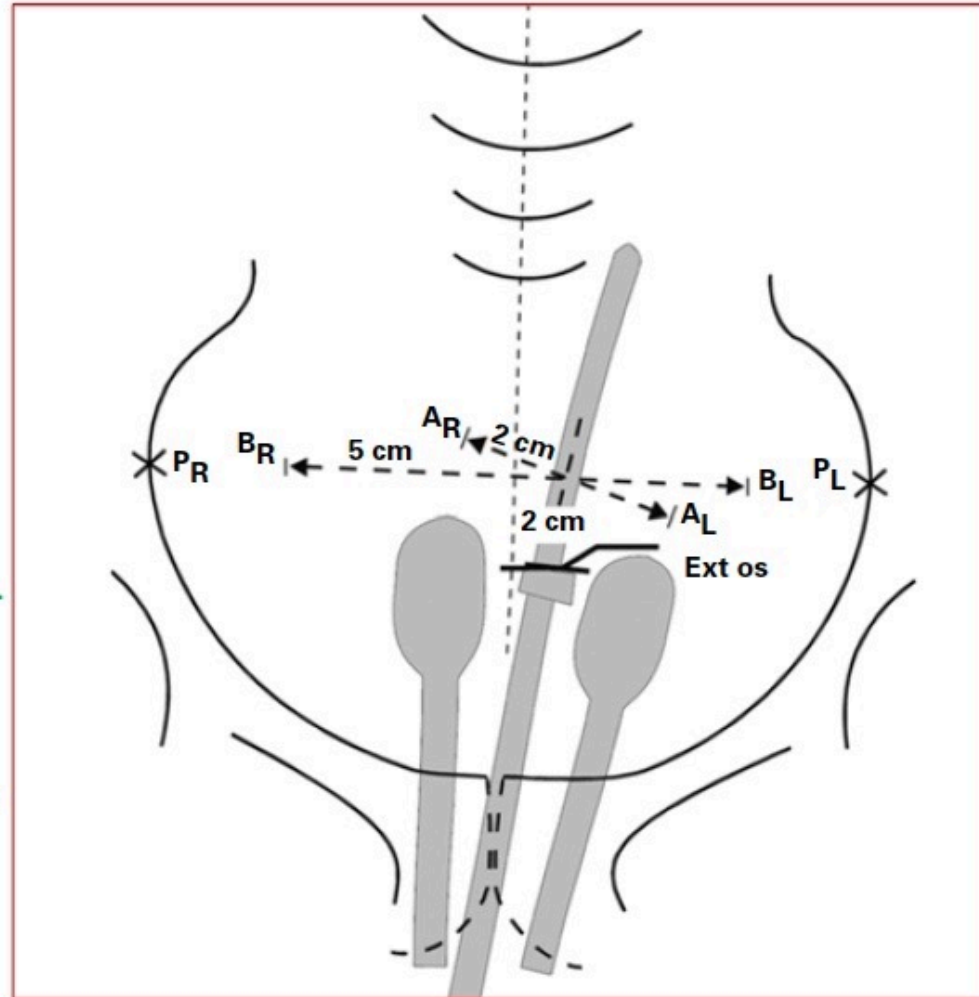
## POINT B:

Referenced to the pelvic bone.

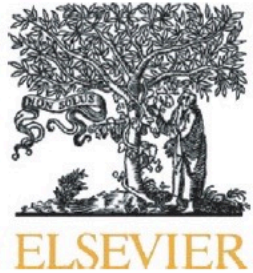
Points B Right and Left are 5 cm lateral to the patient midline on a line perpendicular to the midline passing through the internal os. Therefore Point B represents the pelvic lymph nodes..

## POINT P:

Points P Right and Left are located on the pelvic brim at the widest extent of the bony pelvis.



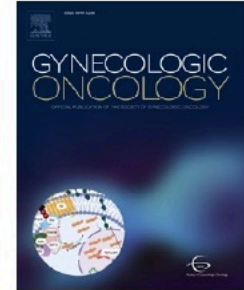
## *Gynecol Oncol* 2021;[Online ahead of print].



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



Patient characteristics, treatment patterns, and clinical outcomes among patients with previously treated recurrent or metastatic cervical cancer: A community oncology-based analysis

Zachary Alholm <sup>a</sup>, Bradley J. Monk <sup>b,\*</sup>, Jie Ting <sup>c</sup>, Sonia Pulgar <sup>c</sup>, Marley Boyd <sup>d</sup>, Lavanya Sudharshan <sup>d</sup>, Savreet Bains <sup>e</sup>, Leonardo Nicacio <sup>c</sup>, Robert L. Coleman <sup>f</sup>

## Tisotumab Vedotin in Previously Treated Recurrent or Metastatic Cervical Cancer: Results From the Phase 2 innovaTV 204/ GOG-3023/ENGOT-cx6 Study

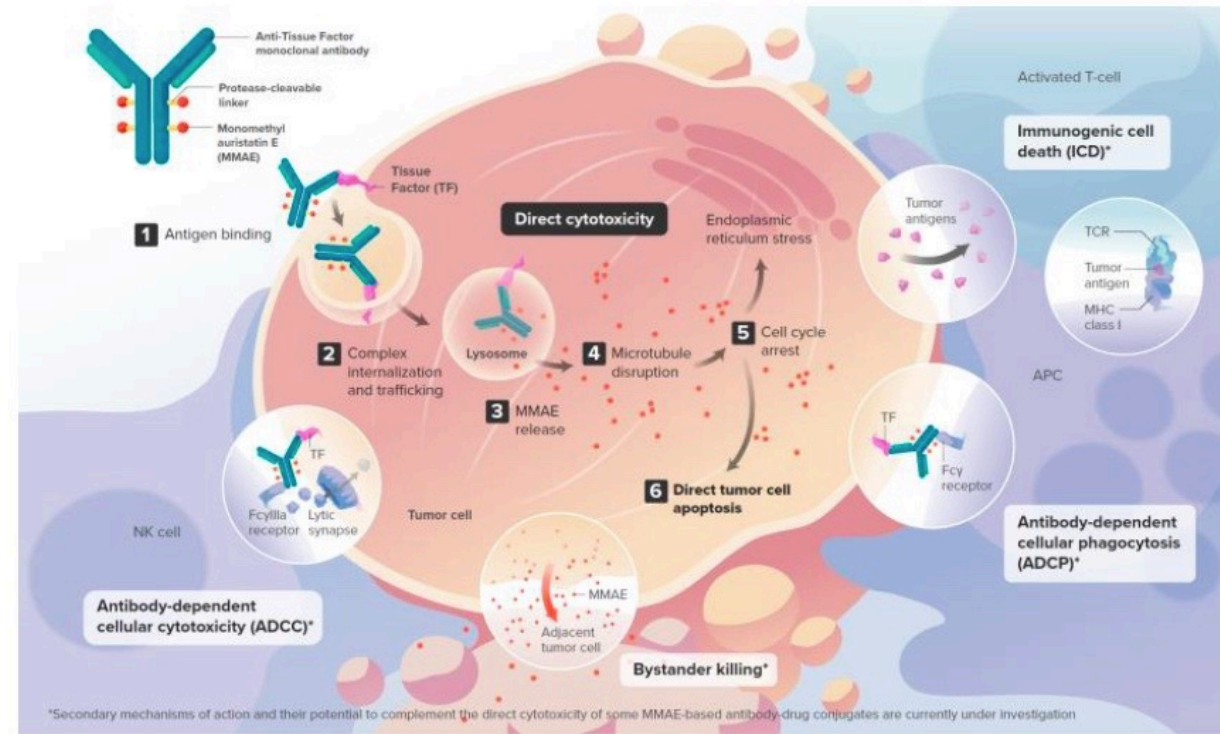
**Robert L. Coleman**,<sup>1</sup> **Domenica Lorusso**,<sup>2</sup>  
**Christine Gennigens**,<sup>3</sup> **Antonio González-Martin**,<sup>4</sup>  
**Leslie Randall**,<sup>5</sup> **David Cibula**,<sup>6</sup> **Bente Lund**,<sup>7</sup> **Linn Woelber**,<sup>8</sup>  
**Sandro Pignata**,<sup>9</sup> **Frederic Forget**,<sup>10</sup> **Andrés Redondo**,<sup>11</sup>  
**Reshma Rangwala**,<sup>12</sup> **Signe Diness Vindeløv**,<sup>13</sup>  
**Menghui Chen**,<sup>12</sup> **Jeffrey R. Harris**,<sup>12</sup> **Leonardo Viana Nicacio**,<sup>14</sup>  
**Melinda S. L. Teng**,<sup>14</sup> **Margaret Smith**,<sup>12</sup> **Bradley J. Monk**,<sup>15</sup>  
**Ignace Vergote**<sup>16</sup>

<sup>1</sup>US Oncology, The Woodlands Houston, TX, USA; <sup>2</sup>Multicentre Italian Trials in Ovarian Cancer and Gynaecological Malignancies Group (MITO) and Scientific Directorate and Department of Women and Child Health, Fondazione Policlinico Universitario Agostino Gemelli IRCCS, Rome, Italy; <sup>3</sup>Department of Medical Oncology, Centre Hospitalier Universitaire de Liège, Liège, Belgium; <sup>4</sup>Grupo Español de Investigación en Cáncer de Ovario (GEICO) and Department of Medical Oncology, Clínica Universidad de Navarra, Madrid, Spain; <sup>5</sup>Massey Cancer Center, Virginia Commonwealth University, Richmond, VA, USA; <sup>6</sup>Central and Eastern European Gynecologic Oncology Group (CEEGOG) and Department of Obstetrics and Gynecology, First Faculty of Medicine, Charles University and General University Hospital, Prague, Czech Republic; <sup>7</sup>Aalborg University Hospital, Aalborg, Denmark; <sup>8</sup>Arbeitsgemeinschaft Gynäkologische Onkologie (AGO) study group and University Medical Center Hamburg-Eppendorf, Hamburg, Germany; <sup>9</sup>MITO and Istituto Nazionale per lo Studio e la Cura dei Tumori, Fondazione G. Pascale IRCCS, Naples, Italy; <sup>10</sup>Centre Hospitalier de l'Ardenne, Libramont, Belgium; <sup>11</sup>Grupo Español de Investigación en Cáncer de Ovario (GEICO) and Hospital Universitario La Paz-IdiPAZ, Madrid, Spain; <sup>12</sup>Genmab US, Inc., Princeton, NJ, USA; <sup>13</sup>Genmab, Copenhagen, Denmark; <sup>14</sup>Seattle Genetics, Inc., Bothell, WA, USA; <sup>15</sup>Arizona Oncology (US Oncology Network), University of Arizona College of Medicine, Creighton University School of Medicine, Phoenix, AZ, USA; <sup>16</sup>Belgium and Luxembourg Gynaecological Oncology Group, University of Leuven, Leuven Cancer Institute, Leuven, Belgium.



# Proposed MOA of Tisotumab Vedotin

- Tisotumab vedotin is an investigational antibody-drug conjugate directed to tissue factor (TF) and covalently linked to the microtubule-disrupting agent MMAE via a protease-cleavable linker<sup>1,2</sup>
- TF is highly prevalent in cervical cancer and other solid tumors and is associated with cancer pathophysiology and poor prognosis<sup>3-5</sup>
  - TF is co-opted by tumor cells to promote tumor growth, angiogenesis, and metastasis<sup>6</sup>
  - In normal physiology, TF's primary role is to initiate the coagulation cascade after vascular injury<sup>6</sup>
- Tisotumab vedotin has multiple anti-tumor effects<sup>1,2,7</sup>



**Tisotumab vedotin is an investigational agent, and its safety and efficacy have not been established.**  
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1. Breij EC et al. *Cancer Res.* 2014;74(4):1214-1226. 2. De Goeij BE et al. *Mol Cancer Ther.* 2015;14(5):1130-1140. 3. Pan L et al. *Mol Med Rep.* 2019;19:2077-2086. 4. Cocco E et al. *BMC Cancer.* 2011;11:263. 5. Zhao X et al. *Exp Ther Med.* 2018;16:4075-4081. 6. Forster Y et al. *Clin Chim Acta.* 2006;364:12-21. 7. Alley SC et al. American Association for Cancer Research Annual Meeting; March 29 – April 3, 2019; Atlanta, GA, USA; Abstract #221. ADCC, antibody-dependent cellular cytotoxicity; ADCP, antibody-dependent cellular phagocytosis; MMAE, monomethyl auristatin E; MOA, mechanism of action; TF, tissue factor.



# innovaTV 204 Study Design

**innovaTV 204 (NCT03438396) is a pivotal phase 2 single-arm, multicenter (United States and Europe) study evaluating tisotumab vedotin in patients with previously treated recurrent and/or metastatic cervical cancer**

### Key Eligibility Criteria

- Recurrent or extrapelvic metastatic cervical cancer
- Progressed during or after doublet chemotherapy<sup>a</sup> with bevacizumab (if eligible)
- Received ≤2 prior systemic regimens<sup>b</sup>
- ECOG PS 0-1

Enrolled: 102<sup>c</sup>  
Treated: 101\*

**Tisotumab vedotin**  
2.0 mg/kg IV Q3W

**Until PD or unacceptable toxicity**

Tumor responses assessed using CT or MRI at baseline, every 6 weeks for the first 30 weeks, and every 12 weeks thereafter

### Primary Endpoint

- ORR<sup>d</sup> per RECIST v1.1, by independent imaging review committee (IRC)

### Secondary Endpoints

- ORR<sup>d</sup> per RECIST v1.1, by investigator
- DOR, TTR, and PFS by IRC and investigator
- OS
- Safety

### Exploratory Endpoints

- Biomarkers
- HRQoL

\*Study sample size calculated assuming a confirmed ORR of 21% to 25% with tisotumab vedotin and to provide ≥80% power to exclude an ORR of ≤11%<sup>e</sup>

<sup>a</sup>Paclitaxel plus platinum (cisplatin or carboplatin) or paclitaxel plus topotecan. <sup>b</sup>Adjuvant or neoadjuvant chemotherapy or if administered with radiation therapy, was not counted as a prior systemic regimen. <sup>c</sup>June 2018 to April 2019. <sup>d</sup>Responses were confirmed by subsequent repeat imaging performed ≥4 weeks after initial response assessment. <sup>e</sup>Using one-sided exact binomial test at 0.025 significance level. CT, computed tomography; ECOG PS, Eastern Cooperative Oncology Group performance status; HRQoL, health-related quality of life; IRC, independent review committee; IV, intravenous; MRI, magnetic resonance imaging; OS, overall survival; PD, progressive disease; Q3W, every 3 weeks; RECIST v1.1, Response Evaluation Criteria In Solid Tumors version 1.1; TTR, time to response.

## Baseline Demographics & Disease Characteristics

	N=101
Age, median (range), years	50 (31–78)
Race, (n %)	
White	96 (95)
Asian	2 (2)
Black or African American	1 (1)
Other	2 (2)
ECOG PS, n (%)	
0	59 (58)
1	42 (42)
Histology, n (%)	
Squamous cell carcinoma	69 (68)
Adenocarcinoma	27 (27)
Adenosquamous carcinoma	5 (5)
Extrapelvic metastatic disease at baseline, n (%)	95 (94)

	N=101
Prior cisplatin plus radiation, n (%)	
Yes	55 (54)
No	46 (46)
Prior lines of systemic regimen for recurrent/metastatic disease, <sup>a</sup> n (%)	
1	71 (70)
2	30 (30)
Prior bevacizumab plus doublet chemotherapy as 1L therapy, <sup>b</sup> n (%)	64 (63)
Response to last systemic regimen, <sup>a</sup> n (%)	
Yes	38 (38)
No	57 (56)
Unknown	6 (6)
Biopsy evaluable, n (%)	80 (79)
Positive membrane TF expression, <sup>c</sup> n (%)	77 (96)

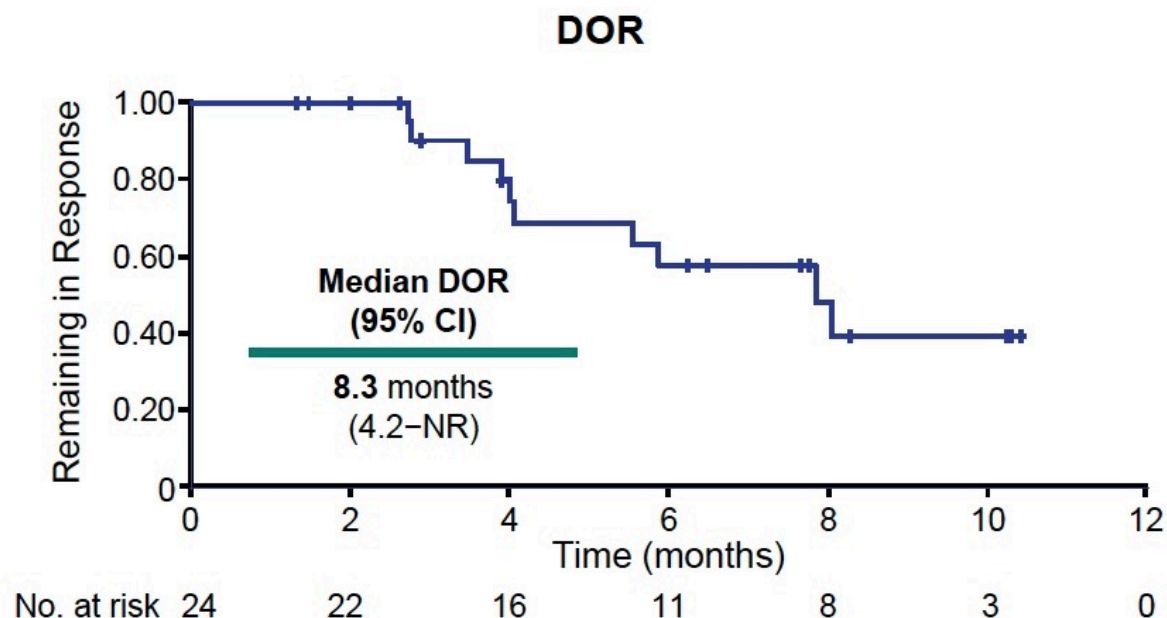
Data cutoff: February 06, 2020.

<sup>a</sup>Systemic regimen administered in the metastatic or recurrent setting. <sup>b</sup>Doublet chemotherapy defined as paclitaxel-platinum or paclitaxel-topotecan. <sup>c</sup>Positive TF expression defined as any positive membrane staining on tumor cells out of biopsy-evaluable population (n=80).

1L, first-line; ECOG PS, Eastern Cooperative Group performance status; TF, tissue factor.

## Antitumor Activity by IRC Assessment

	N=101
<b>Confirmed ORR (95% CI),<sup>a</sup> %</b>	<b>24 (15.9–33.3)</b>
CR, n (%)	7 (7)
PR, n (%)	17 (17)
SD, n (%)	49 (49)
PD, n (%)	24 (24)
Not evaluable, n (%)	4 (4)



**Clinically meaningful and durable responses were observed**

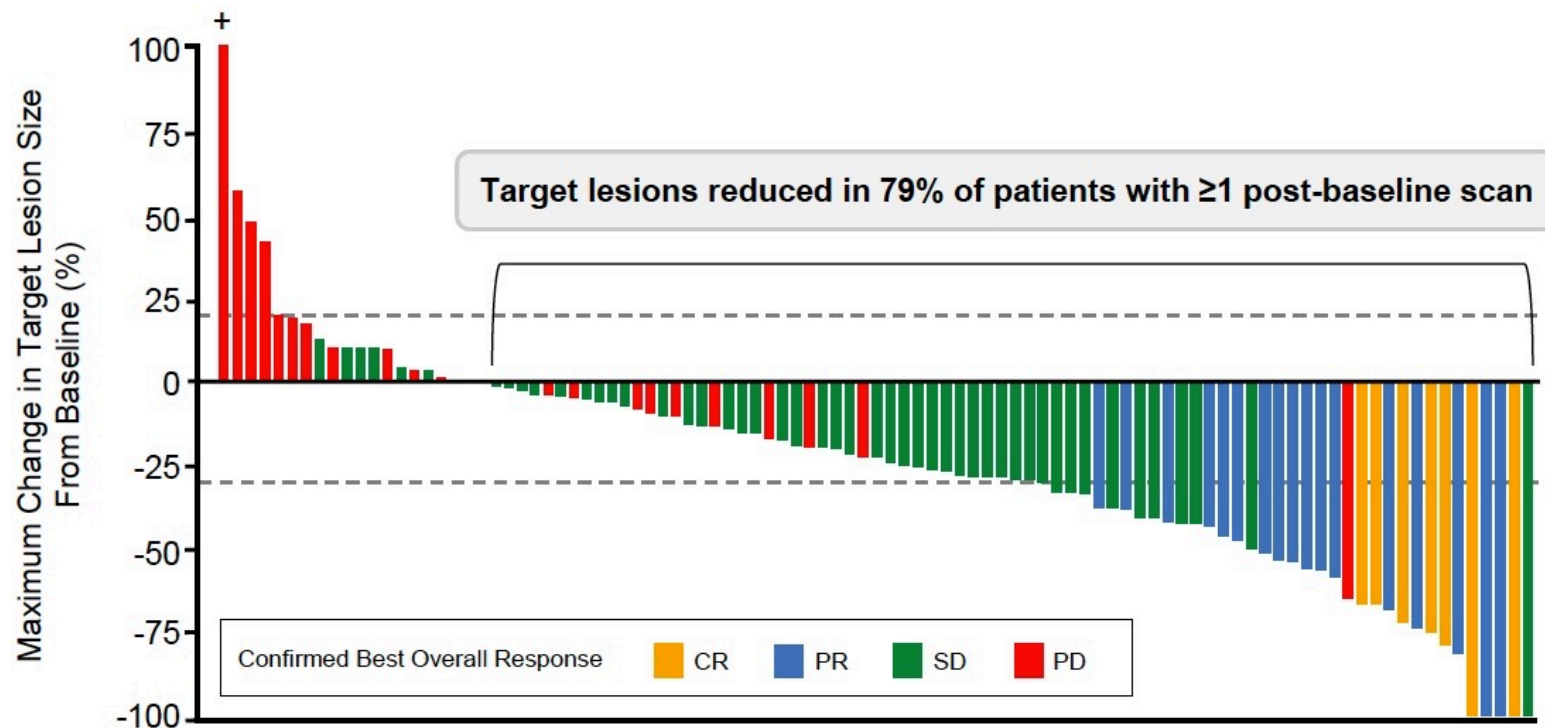
Data cutoff: February 06, 2020. Median duration of follow-up: 10.0 months.

<sup>a</sup>Based on the Clopper-Pearson method.

CI, confidence interval; CR, complete response; DOR, duration of response; IRC, independent review committee; NR, not reached; ORR, objective response rate; PD, disease progression; PR, partial response; SD, stable disease.

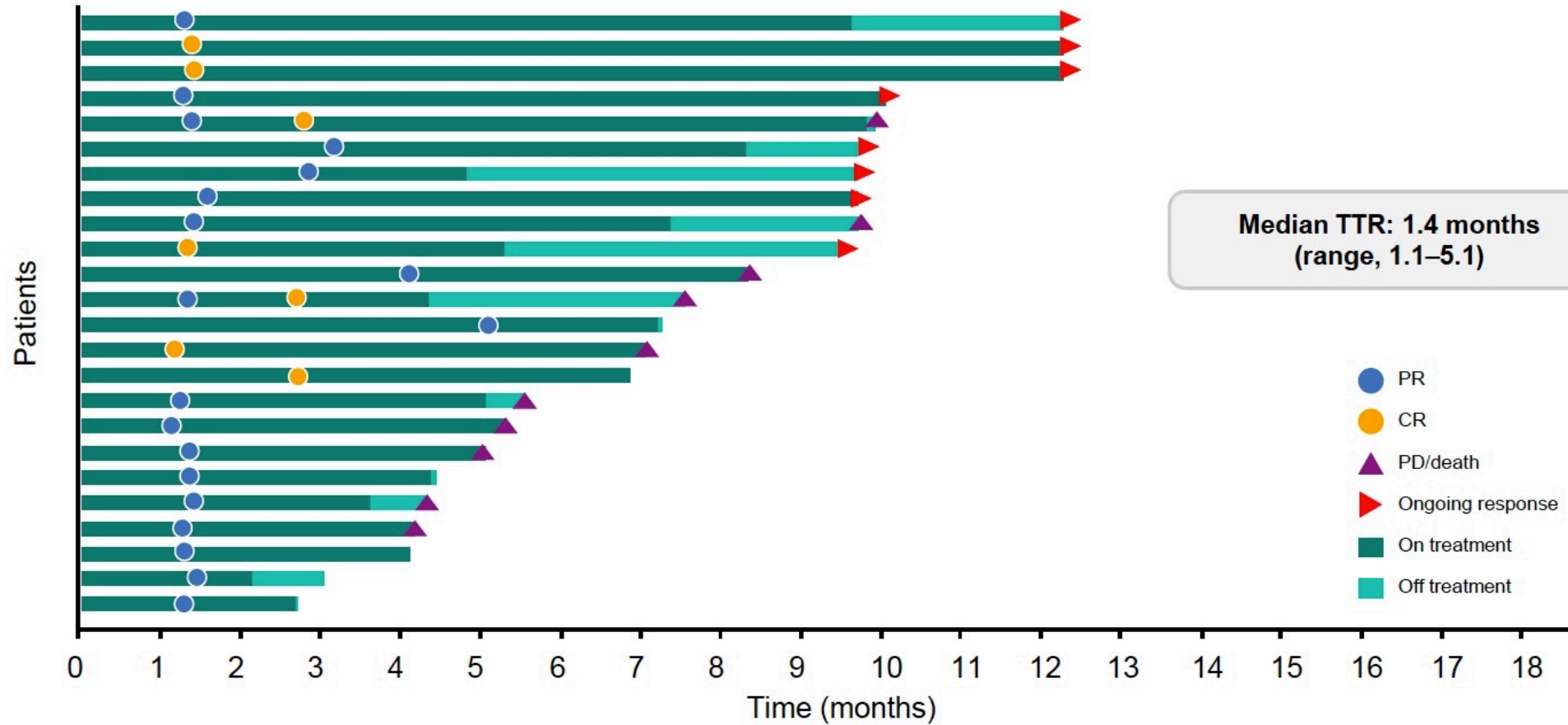
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# Maximum Change in Target Lesion Size by IRC Assessment



Data cutoff: February 06, 2020. Median duration of follow-up: 10.0 months. + indicates a change greater than 100%. Horizontal dashed lines indicate 20% increase and 30% decrease in target lesion diameters from baseline for RECIST v1.1 assessment. Colored bars represent the best overall confirmed response. CR, PR, SD, and PD were based on RECIST v1.1 as evaluated by IRC. CR, complete response; IRC, independent review committee; PD, disease progression; PR, partial response; RECIST v1.1, Response Evaluation Criteria In Solid Tumors version 1.1; SD, stable disease.

# Confirmed Responders by IRC Assessment

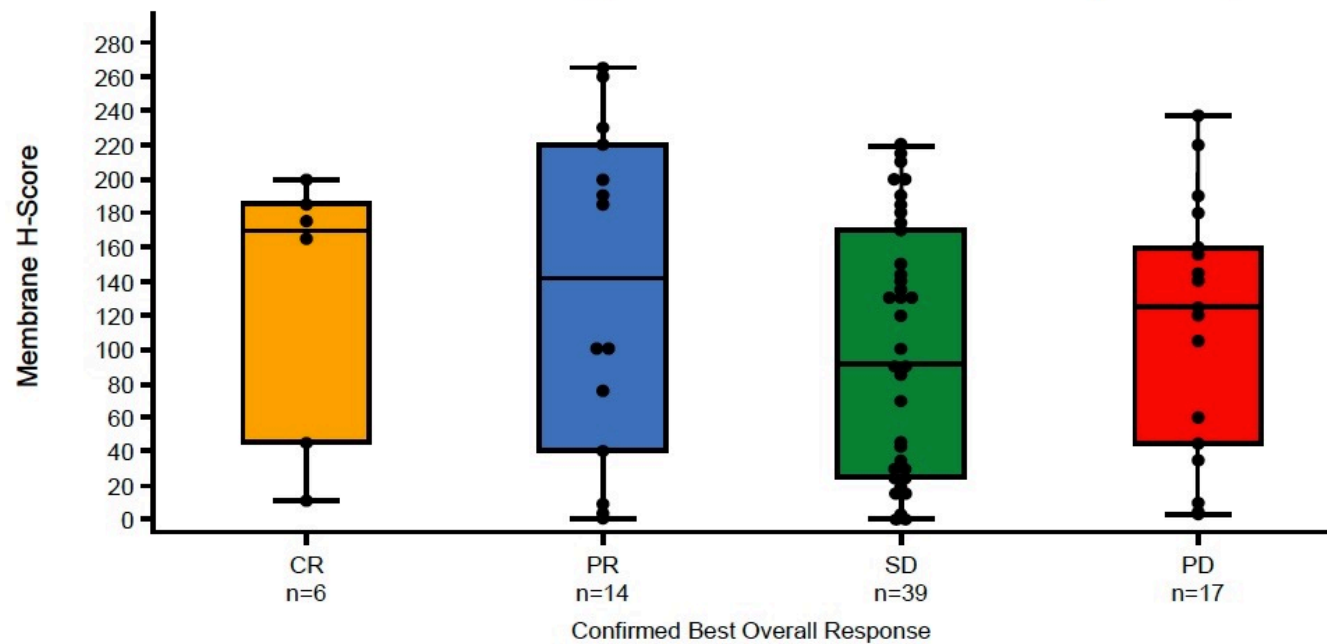


Data cutoff: February 06, 2020. Median duration of follow-up: 10.0 months.  
 Symbols closest to the Y-axis indicate the first response. A second symbol on a lane indicates a response that improved from a PR to a CR.  
 CR, complete response; IRC, independent review committee; PD, disease progression; PR, partial response; TTR, time to response.

## Tissue Factor Expression Analyses

- Response to tisotumab vedotin was observed regardless of membrane TF expression level
- Of the 80 patients for whom TF expression data were available, 76 (95%) were also evaluable for response
- Similar distribution of TF expression was observed between the different response groups

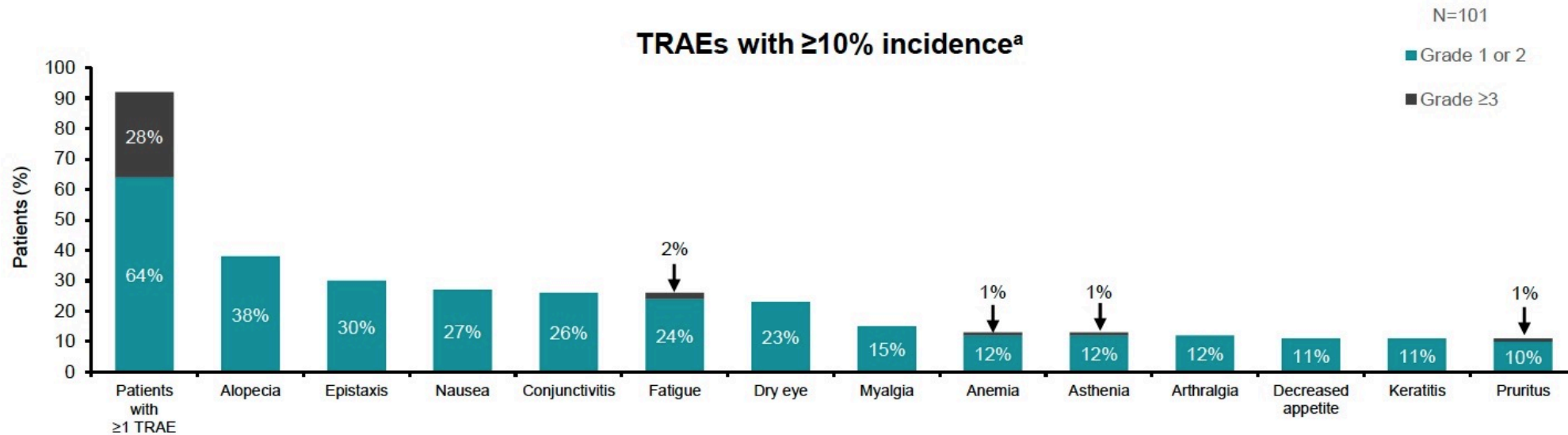
**Tumor Membrane H-Score at Baseline by Confirmed Best Overall Response by IRC Assessment**



Data cutoff: February 06, 2020. Median duration of follow-up: 10.0 months.

CR, complete response; IRC, independent review committee; PD, disease progression; PR, partial response; SD, stable disease; TF, tissue factor.

## Most Common TRAEs with Tisotumab Vedotin



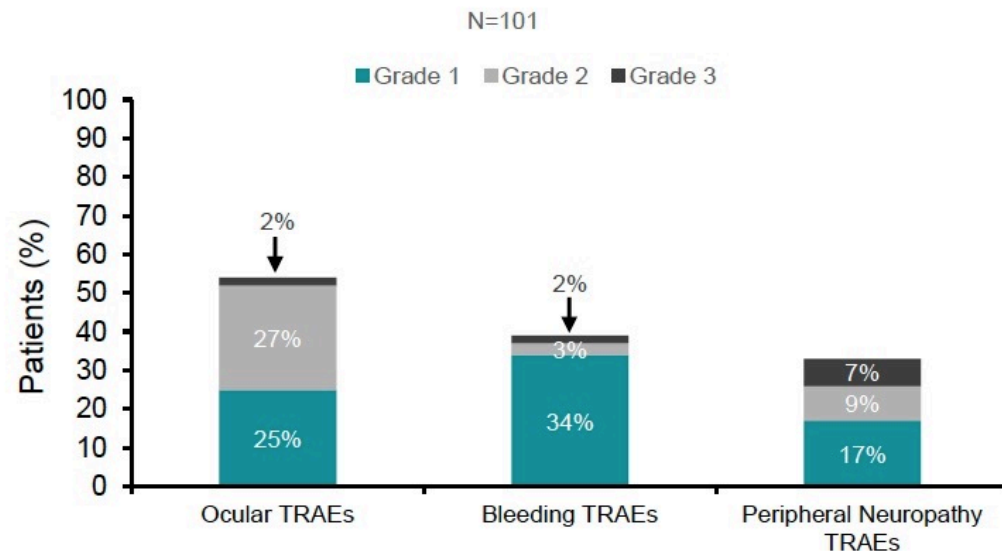
- Most TRAEs were grade 1 or 2 and no new safety signals were reported
- One death due to septic shock was considered by the investigator to be related to therapy<sup>b</sup>

Data cutoff: February 06, 2020. Median duration of follow-up: 10.0 months. Median duration of treatment: 4.2 months (range, 1–16).

<sup>a</sup>Any-grade AEs included if  $\geq 10\%$ . <sup>b</sup>Three treatment-emergent deaths unrelated to therapy included one case of ileus and two with unknown causes. TRAE, treatment-related adverse event.

# Prespecified AEs of Interest of Tisotumab Vedotin

## Ocular,<sup>a</sup> bleeding,<sup>b</sup> and peripheral neuropathy<sup>c</sup> TRAEs



	Ocular	Bleeding	Peripheral Neuropathy
Time to onset (median, months)	1.4	0.3	3.1
Events resolved, %	86	90	21
Time to resolution <sup>d</sup> (median, months)	0.7	0.5	0.6

- **Ocular AEs were mostly mild to moderate, resolved, and were manageable with an eye care plan**
- **Most bleeding events were grade 1 epistaxis (28%) of which majority resolved**
- **Most peripheral neuropathy events (known MMAE-related toxicity) were grade 1 and manageable with dose modifications; resolution was limited by follow-up period**

Data cutoff: February 06, 2020. Median duration of follow-up: 10.0 months.

<sup>a</sup>Any ocular SMQ (conjunctival disorders SMQ, corneal disorders SMQ, scleral disorders SMQ, retinal disorders SMQ, periorbital and eyelid disorders SMQ, ocular infections SMQ, optic nerve disorders SMQ, glaucoma SMQ, lacrimal disorders SMQ, and eye disorders SMQ). <sup>b</sup>Hemorrhage SMQ. <sup>c</sup>Peripheral neuropathy SMQ. <sup>d</sup>Assessment limited by the protocol-defined follow-up period for AE of only 30 days after the last dose. AE, adverse event; MMAE, monomethyl auristatin E; SMQ, standardized MedDRA queries; TRAE, treatment-related adverse events.

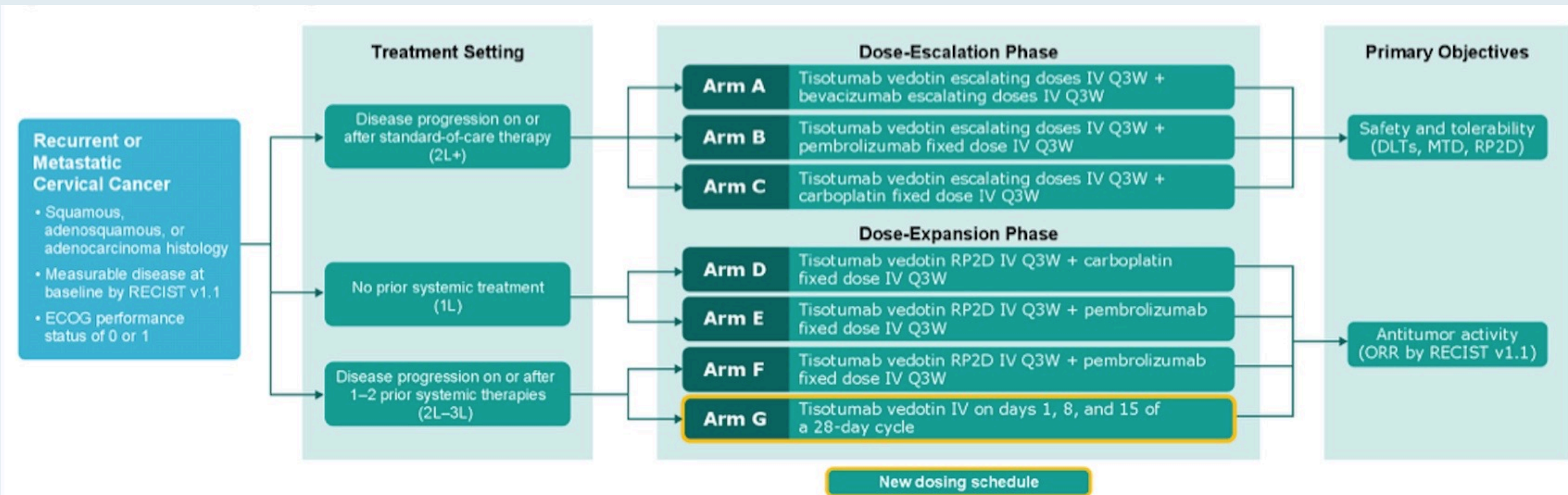


# Phase Ib/II Trial of Tisotumab Vedotin (TV) ± Bevacizumab (BEV), Pembrolizumab (PEM), or Carboplatin (CBP) in Recurrent or Metastatic Cervical Cancer (innovaTV 205/ENGOT-cx8/GOG-3024)

Vergote I et al.

ASCO 2020;Abstract TPS6095.

# innovaTV 205 Study Design



2L, second-line; 3L, third-line; DLTs, dose-limiting toxicities; ECOG, Eastern Cooperative Oncology Group; IV, intravenously; MTD, maximum tolerated dose; ORR, objective response rate; RECIST v1.1, Response Evaluation Criteria in Solid Tumors, version 1.1; RP2D, recommended phase 2 dose.

*Int J Gynecol Cancer* 2020;30(7):1065-70

Clinical trial

INTERNATIONAL JOURNAL OF  
GYNECOLOGICAL CANCER



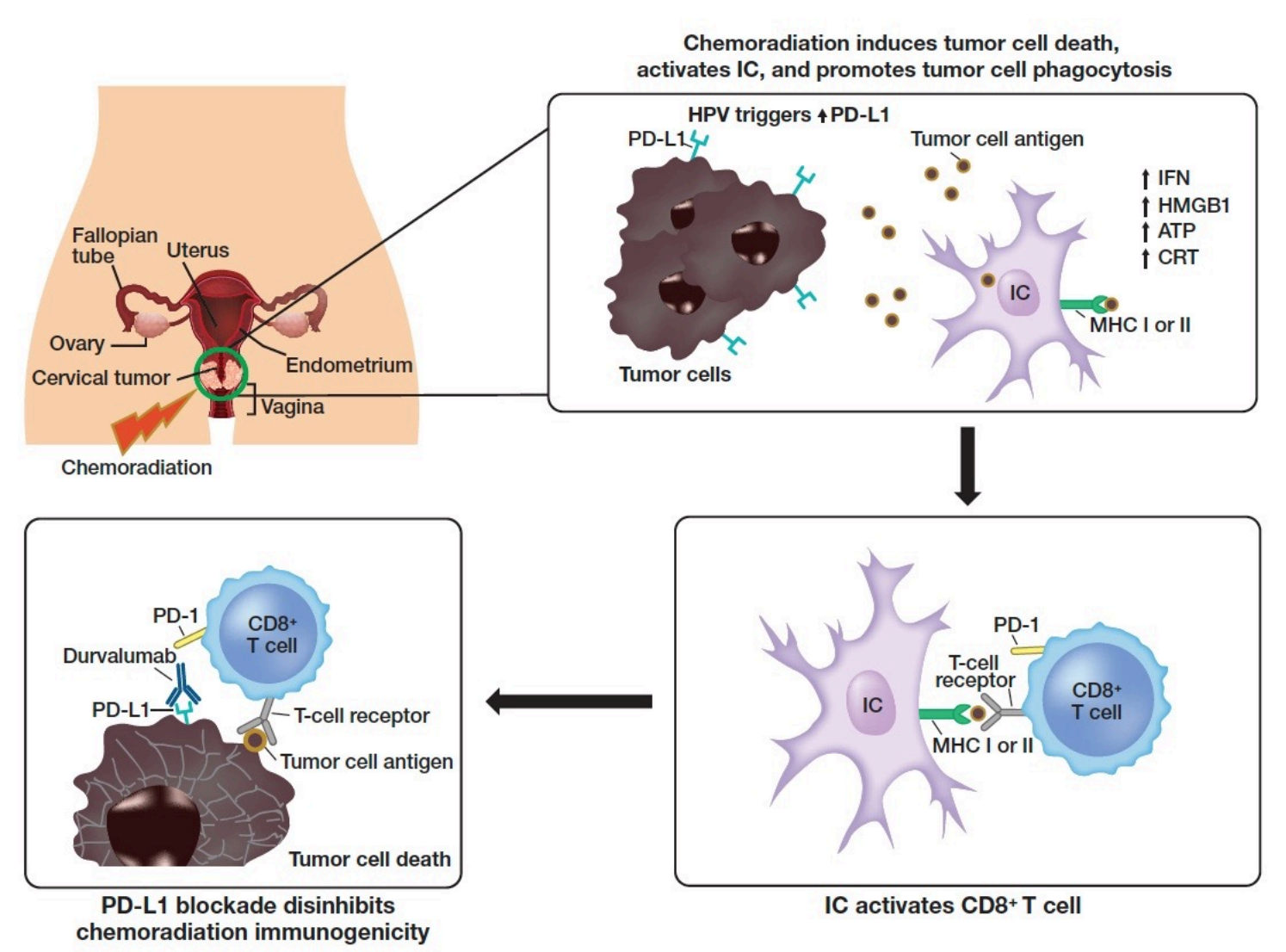
OPEN ACCESS

**CALLA: Efficacy and safety of concurrent and adjuvant durvalumab with chemoradiotherapy versus chemoradiotherapy alone in women with locally advanced cervical cancer: a phase III, randomized, double-blind, multicenter study**

---

Jyoti Mayadev,<sup>1</sup> Ana T Nunes,<sup>2</sup> Mary Li,<sup>2</sup> Michelle Marcovitz,<sup>2</sup> Mark C Lanasa,<sup>2</sup> Bradley J Monk<sup>3</sup>

# Concurrent Chemoradiation Therapy + Anti-PD-1/PD-L1 Therapies



# CALLA Study Design

## Study population

- FIGO 2009 Stages IB2 to IIB (N ≥ 1) OR IIIA to IVA (N ≥ 0)
- Nodal staging (pelvic and/or para-aortic) may be either surgical or by imaging (RECIST v1.1)
- No evidence of metastatic disease (M0)

R  
1:1

Durvalumab 1500 mg Q4W (N=357)  
EBRT + Brachy with platinum

Placebo Q4W (N=357)  
EBRT + Brachy with platinum

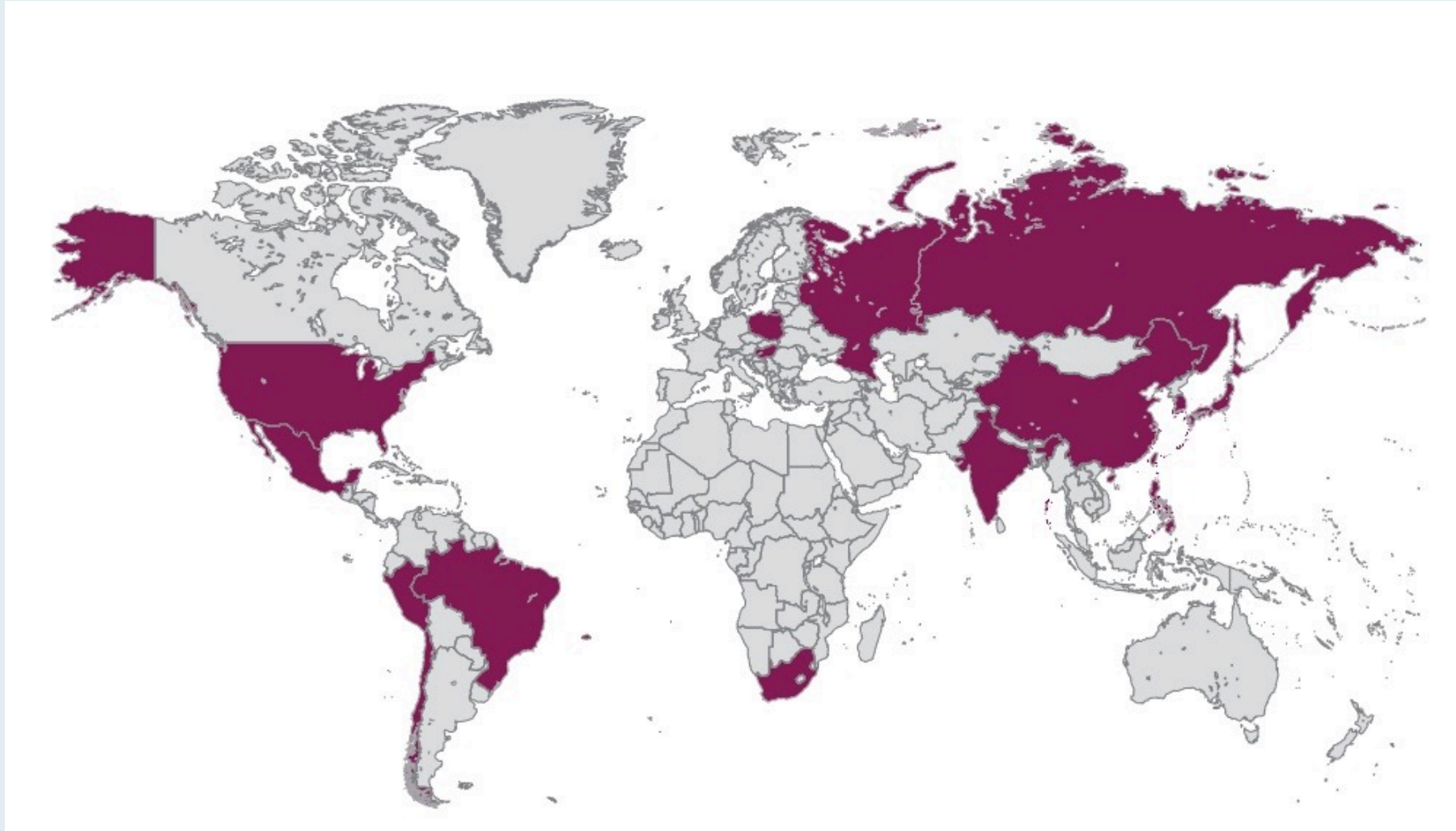
Primary endpoint  
PFS

Secondary endpoints  
OS, ORR, CR rate, incidence of local progression, distant disease recurrence, secondary malignancy, HRQoL, PK, ADAs

## Stratification

- Stage: Stage <III and N positive, Stage ≥III and N negative, or Stage ≥III and N positive
- Region: United States, Canada, European Union, South Korea, and Japan versus rest of the world

## CALLA Planned Study Sites: Approximately 131 Sites Including 114 Sites Outside the United States



# Balstilimab (anti-PD-1) Alone and in Combination with Zalifrelimab (anti-CTLA-4) for Recurrent/Metastatic (R/M) Cervical Cancer (CC) Preliminary Results of Two Independent Ph2 Trials (NCT03104699 and NCT03495882)

O'Malley DM<sup>1</sup>; Oaknin A<sup>2</sup>; Monk B<sup>3</sup>; Leary A<sup>4</sup>; Selle F<sup>5</sup>; Alexandre J<sup>6</sup>; Randall L<sup>6</sup>; Rojas C<sup>7</sup>; Neffa M<sup>8</sup>; Kryzhanivska A<sup>9</sup>; Gladieff L<sup>10</sup>; Berton D<sup>11</sup>; Meniawy T<sup>12</sup>; Lugowska I<sup>13</sup>; Bondarenko I<sup>14</sup>; Moore K<sup>15</sup>; Ortuzar Feliu W<sup>16</sup>; Ancukiewicz M<sup>16</sup>; Shapiro I<sup>16</sup>; Ray-Coquard I<sup>17</sup>

<sup>1</sup>The Ohio State University Comprehensive Cancer Center, Columbus, OH, USA; <sup>2</sup>Vall d'Hebron University Hospital, Vall d'Hebron Institute of Oncology, Barcelona, Spain; <sup>3</sup>University of Arizona College of Medicine, Creighton University School of Medicine at St. Joseph's Hospital Phoenix, AZ, USA; <sup>4</sup>Institut de Cancérologie Gustave Roussy, Villejuif, France; <sup>5</sup>APHP Centre - Université de Paris, Hôpital Cochin, Paris, France; <sup>6</sup>Massey Cancer Center, Virginia Commonwealth University, Richmond, VA, USA; <sup>7</sup>Centro de Investigaciones Clinicas, Bradford Hill, Chile; <sup>8</sup>CI of Healthcare Regional Clinical Specialized Dispensary of the Radiation Protection, Department of Surgery, Kharkiv, Ukraine; <sup>9</sup>CI Transcarpathian CI Onc Center Dep of Surgery#1 SHEI Ivano-Frankivsk NMU, Ivano-Frankivsk, Ukraine; <sup>10</sup>Le Centre René Gauducheau, Saint-Herblain, France; <sup>11</sup>Institut Claudius Regaud, IUCT Oncopole, Toulouse, France; <sup>12</sup>Linear Clinical Research, Perth, Australia; <sup>13</sup>Centrum Onkologii-Instytut im.M.Sklodowskiej Curie, Warsaw, Poland; <sup>14</sup>CI Dnipropetrovsk CMCH #4 of Dnipropetrovsk RC Dept of Chemotherapy SI Dnipropetrovsk MA of MOHU, Dniepro, Ukraine; <sup>15</sup>Stephenson Cancer Center at the University of Oklahoma, Oklahoma City, OK, USA ; <sup>16</sup>Agenus Inc., Lexington, MA, USA; <sup>17</sup>Centre Léon Bérard, Lyon, France

# Study Design

## Two Parallel, Single-arm Trials Testing Balstilimab Alone and with Zalifrelimab in Recurrent/Metastatic Cervical Cancer

### Population

- Histologically confirmed SCC, ASC, AC of the cervix relapsed after platinum-based treatment
- Measurable disease
- ECOG PS 0–1

### Treatment

(for up to 24 months)

**Bal** (n = 161)  
3 mg/kg q2w  
(NCT03104699)

**Bal + Zal** (n = 155)  
Bal 3 mg/kg q2w+ Zal 1 mg/kg q6w  
(NCT03495882)

### Follow-up

Imaging  
every 6 wks  
through 2 yrs

- **Primary endpoint:** Independent Review Committee (IRC) ORR by RECIST 1.1
- **Secondary endpoints:** DOR, PFS, OS,

SCC – Squamous-cell cancer; ASC – Adenosquamous cancer; AC – Adenocarcinoma





## Primary Endpoint: Tumor Response

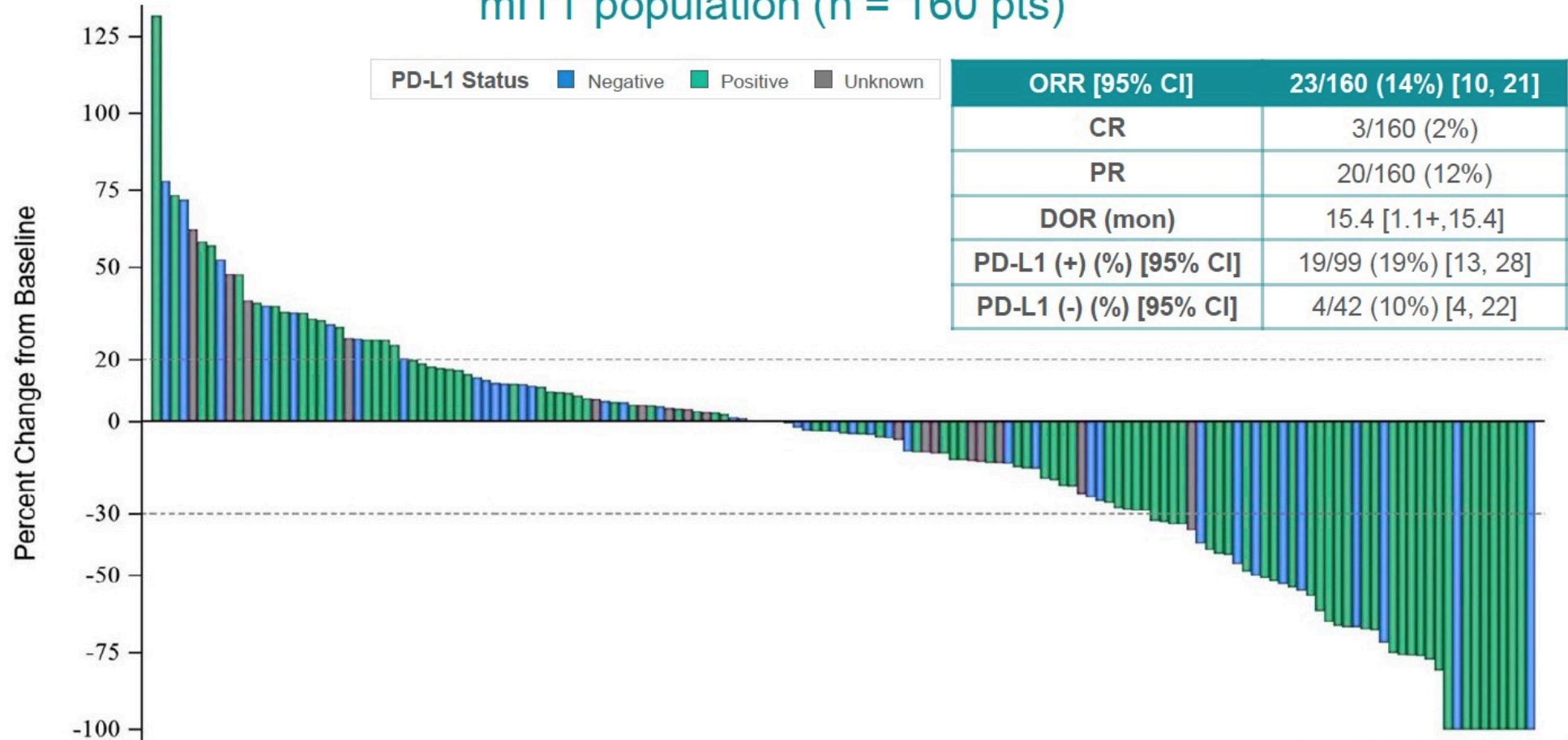
Responses in all patients	Balstilimab Only		Balstilimab + Zalifrelimab	
	mITT (n=160)	≥1 Prior chemotherapy (n=138)	mITT (N=143)	≥1 Prior chemotherapy (n=119)
<b>Best Overall Response %, (95% CI)</b>	<b>23 (14%) [10, 21]</b>	<b>18 (13%) [8, 20]</b>	<b>31 (22%) [16, 29]</b>	<b>24 (20%) [14, 28]</b>
Complete Response	3 (2%)	3 (2%)	8 (6%)	6 (5%)
Partial Response	20 (12%)	15 (11%)	23 (16%)	18 (15%)
<b>Duration (mon) of Response, median [range obs]</b>	15.4 [1.1+, 15.4]	15.4 [1.3+, 15.4]	NR [1.3+, 16.6+]	NR [1.3+, 15.4+]
<b>ORR by tumor histology</b>				
SCC # responders/# treated (%)	18/100 (18%)	13/83 (16%)	29/106 (27%)	22/82 (27%)
AdenoCa/AdnoSq # responders/# treated (%)	5/59 (8%)	5/55 (9%)	2/37 (5%)	2/37 (5%)

Data cut-off: 7/31/2020



# Tumor Response with Balstilimab Monotherapy

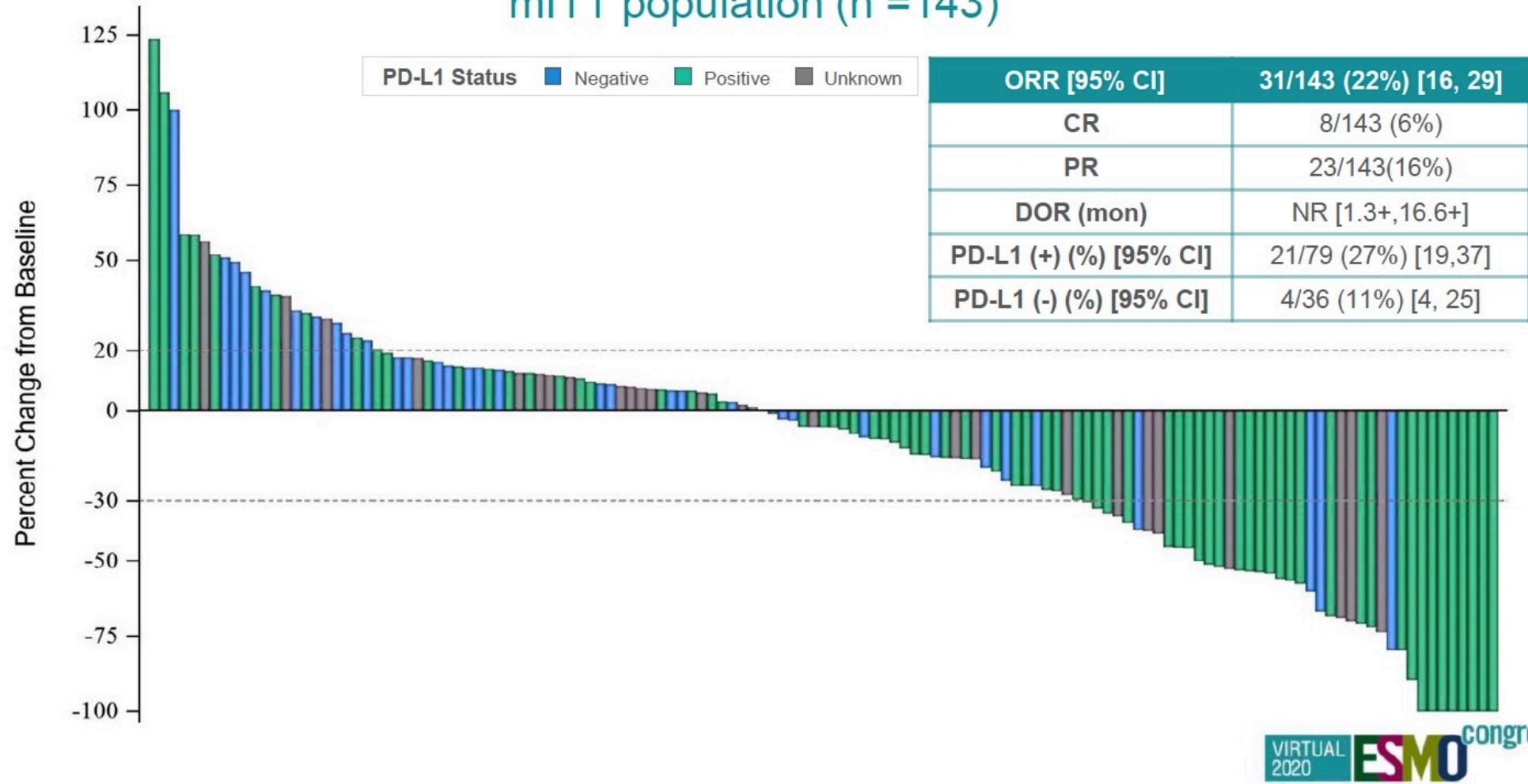
mITT population (n = 160 pts)



VIRTUAL 2020 ESMO congress

# Tumor Response with Balstilimab plus Zalifrelimab

mITT population (n =143)



# Immune-Related Adverse Events\*

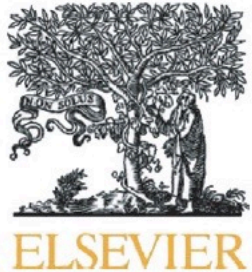
## Safety Population

Any grade irTRAEs, n (%)	Bal N= 161	Bal/Zal N=155
Gastrointestinal disorders	9 (5.6)	<b>13 (8.4)</b>
Laboratory abnormalities**	9 (5.6)	<b>18 (11.6)</b>
Endocrine disorders	8 (5.0)	<b>29 (18.7)</b>
Grade ≥3 irTRAEs, n (%)		
Gastrointestinal disorders	5 (3.1)	4 (2.6)
Laboratory abnormalities**	2 (1.2)	6 (3.9)
Skin and sc. tissue disorders	1 (0.6)	3 (1.9)

\* Investigator reported events

\*\* Lab. abnormalities observed in creatinine, lipase, aminotransferases, electrolytes and thyroid stimulating hormone levels

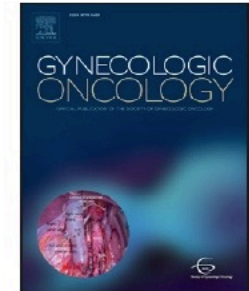




Contents lists available at ScienceDirect

## Gynecologic Oncology

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

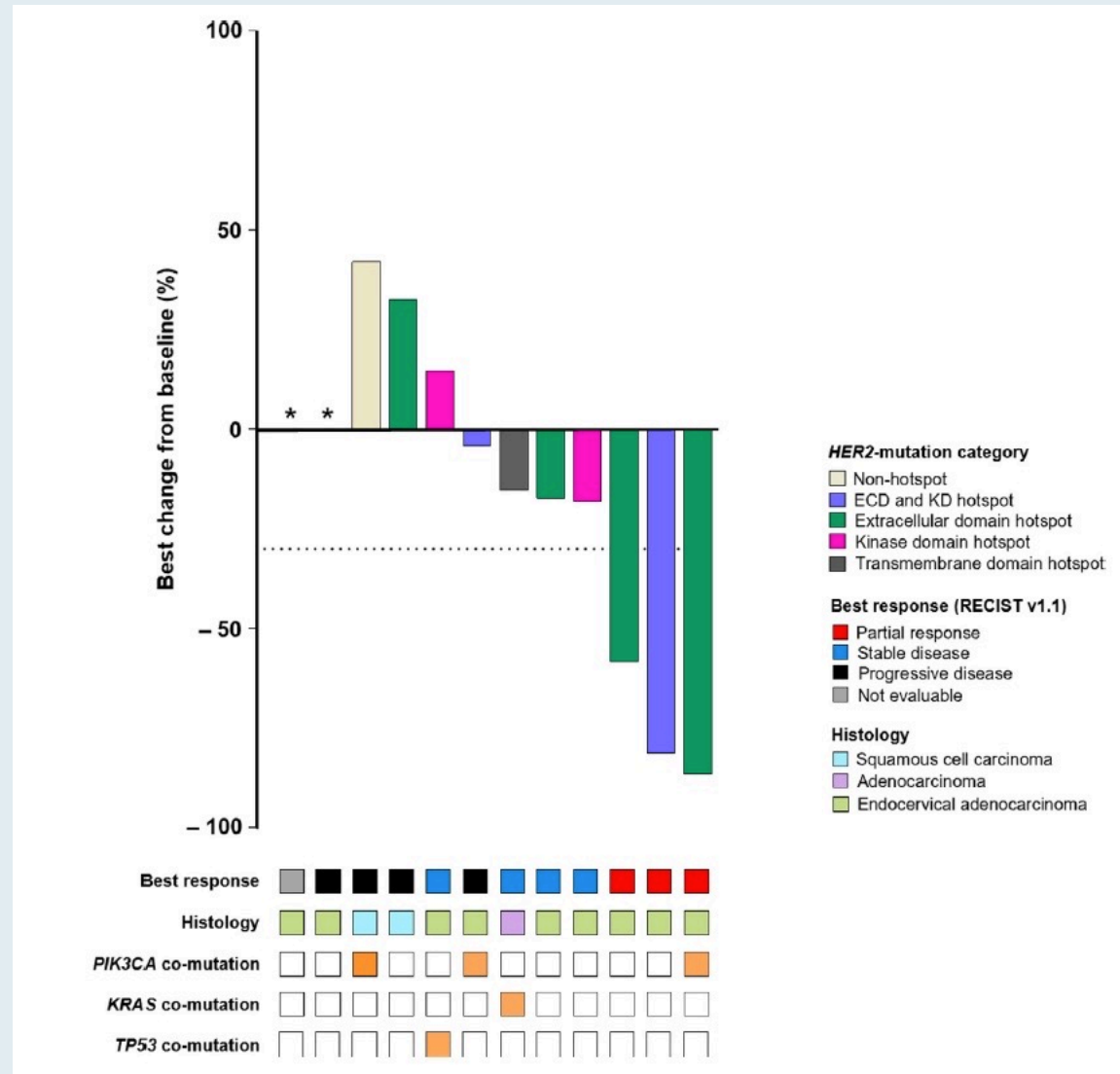


Research paper

### Neratinib in patients with *HER2*-mutant, metastatic cervical cancer: Findings from the phase 2 SUMMIT basket trial

Ana Oaknin <sup>a,1</sup>, Claire F. Friedman <sup>b,1</sup>, Lynda D. Roman <sup>c</sup>, Anishka D'Souza <sup>c</sup>, Irene Brana <sup>a</sup>, François-Clement Bidard <sup>d</sup>, Jonathan Goldman <sup>e</sup>, Edwin A. Alvarez <sup>f</sup>, Valentina Boni <sup>g</sup>, Adam C. ElNaggar <sup>h</sup>, Rodolfo Passalacqua <sup>i</sup>, Khanh T.M. Do <sup>j</sup>, Alessandro D. Santin <sup>k</sup>, Kiana Keyvanjah <sup>l</sup>, Feng Xu <sup>l</sup>, Lisa D. Eli <sup>l</sup>, Alshad S. Lalani <sup>l</sup>, Richard P. Bryce <sup>l</sup>, David M. Hyman <sup>b,2</sup>, Funda Meric-Bernstam <sup>m</sup>, David B. Solit <sup>b</sup>, Bradley J. Monk <sup>n,\*,3</sup>

# Best Change in Tumor Size and Characteristics in RECIST Efficacy Evaluable Patients (N=12)




Targeted Oncology (2019) 14:505–525

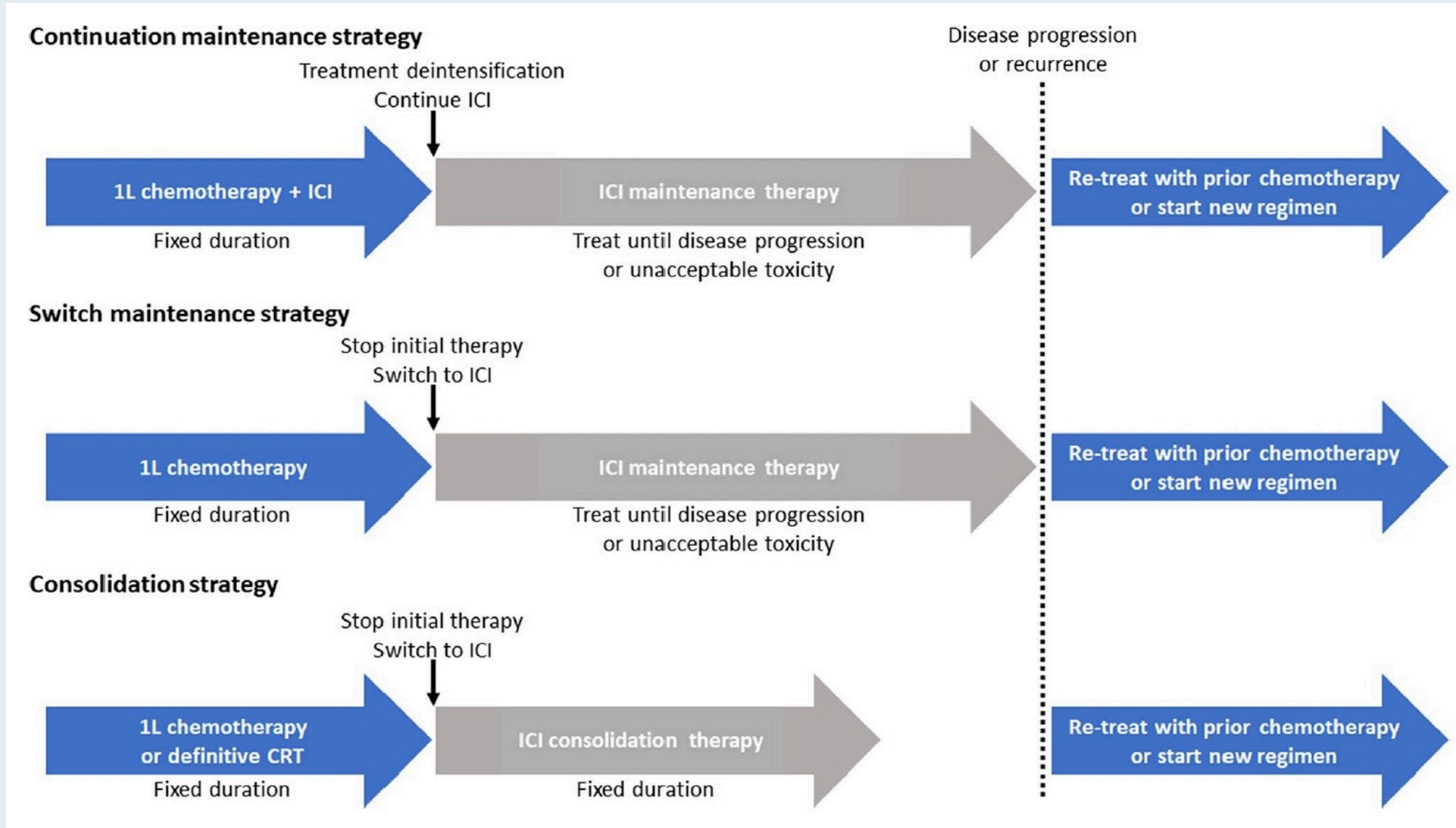
<https://doi.org/10.1007/s11523-019-00665-1>

REVIEW ARTICLE

# Immune Checkpoint Inhibitors as Switch or Continuation Maintenance Therapy in Solid Tumors: Rationale and Current State

Petros Grivas<sup>1</sup>  · Bradley J. Monk<sup>2</sup> · Daniel Petrylak<sup>3</sup> · Martin Reck<sup>4</sup> · Grace Foley<sup>5</sup> · Silke Guenther<sup>6</sup> · Dan Hennessy<sup>7</sup> · Constantin Makris<sup>8</sup> · Markus Moehler<sup>9</sup>

# Schematic of Immune Checkpoint Inhibitor (ICI)-Based Maintenance Strategies Being Investigated in Clinical Trials





*Gynecol Oncol.* 2020 January ; 156(1): 100–106.

## **Incorporation of whole pelvic radiation into treatment of stage IVB cervical cancer: A novel treatment strategy**

**Victoria Perkins<sup>a</sup>, Kathleen Moore<sup>a</sup>, Sara Vesely<sup>e</sup>, Koji Matsuo<sup>b</sup>, Sayedamin Mostofizadeh<sup>b</sup>, Travis T. Sims<sup>c</sup>, Jayanthi Lea<sup>c</sup>, Dominique Barnes<sup>d</sup>, Sixia Chen<sup>e</sup>, Matthew Carlson<sup>c</sup>, Lynda Roman<sup>b</sup>, Bradley J. Monk<sup>d</sup>, Laura L. Holman<sup>a,\*</sup>**

EDITORIAL

# Sequential Chemotherapy for Early-Stage, Post-Radical Hysterectomy Cervical Cancer Are the STARS Aligned?

Leslie M. Randall, MD; Jyoti Mayadev, MD; Bradley J. Monk, MD

***JAMA Oncol 2021;7(3):353-4.***

# Meet The Professor with Dr Monk

## MODULE 1: Cases from General Medical Oncology Practices

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

## MODULE 3: Gynecologic Oncology Journal Club with Dr Monk

- Evidence-based treatment paradigm for invasive cervical carcinoma (CC)
- Patient characteristics, treatment patterns and clinical outcomes with previously treated recurrent or metastatic CC
- innovaTV 204 trial: Tisotumab vedotin for previously treated recurrent or metastatic CC
- innovaTV 205 trial: Tisotumab vedotin  $\pm$  bevacizumab, pembrolizumab or carboplatin for recurrent or metastatic CC
- CALLA trial results: Concurrent and adjuvant durvalumab with chemoRT versus chemoRT alone for locally advanced CC
- Anti-PD-1 balstilimab alone or in combination with anti-CTLA-4 zalifrelimab for recurrent or metastatic CC
- Phase II SUMMIT basket trial: Neratinib for patients with metastatic CC with HER2 mutation
- Immune checkpoint inhibitors as switch or continuation maintenance therapy for solid tumors
- Incorporation of whole pelvic radiation into treatment of Stage IVB CC
- Sequential chemotherapy for early-stage, post-radical hysterectomy CC: Are the STARS aligned?

## MODULE 4: Key Recent Data Sets

# Anti-PD-1/PD-L1 Checkpoint Inhibitors in Endometrial Cancer

# Pembrolizumab in Patients with MSI-H Advanced Endometrial Cancer from the KEYNOTE-158 Study

O'Malley D et al.

ESMO 2019;Abstract 1044P.



Research

***JAMA Oncol 2020;6(11):1766-72***

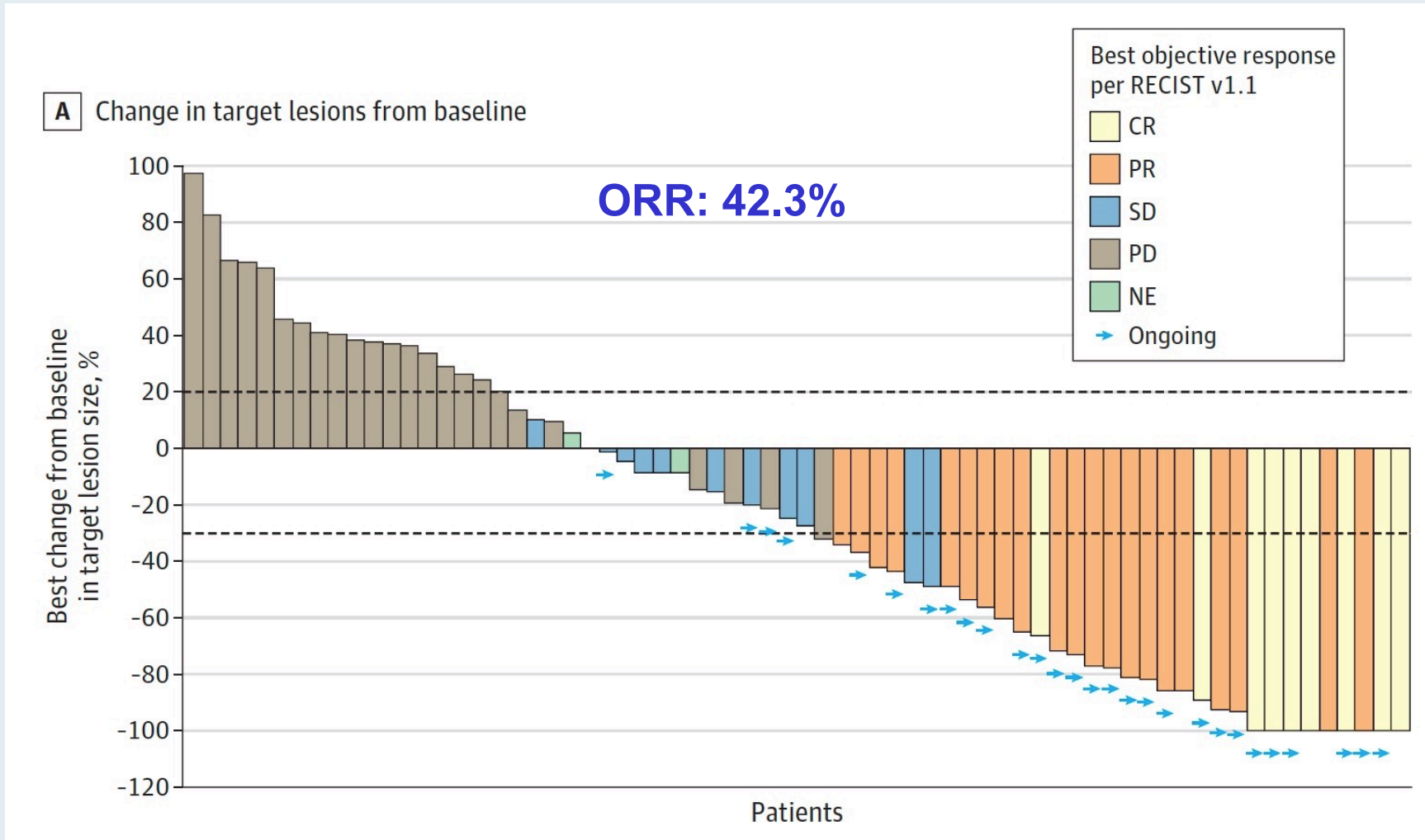
JAMA Oncology | **Original Investigation**

# **Clinical Activity and Safety of the Anti-Programmed Death 1 Monoclonal Antibody Dostarlimab for Patients With Recurrent or Advanced Mismatch Repair-Deficient Endometrial Cancer**

## **A Nonrandomized Phase 1 Clinical Trial**

Ana Oaknin, MD, PhD; Anna V. Tinker, MD; Lucy Gilbert, MD; Vanessa Samouëlian, MD; Cara Mathews, MD; Jubilee Brown, MD; Maria-Pilar Barretina-Ginesta, MD; Victor Moreno, MD; Adriano Gravina, MD; Cyril Abdeddaim, MD; Susana Banerjee, MD; Wei Guo, PhD; Hadi Danaee, ScD; Ellie Im, MD; Renaud Sabatier, MD

# GARNET: Dostarlimab for Recurrent or Advanced dMMR Endometrial Cancer — Best Percentage Change in Lesion Size





# Interim Analysis of the Immune-Related Endpoints of the Mismatch Repair Deficient (dMMR) and Proficient (MMRp) Endometrial Cancer Cohorts from the GARNET Study

Pothuri B et al.

SGO 2021;Abstract 10417.

# GARNET: Immune-Related Secondary Endpoints

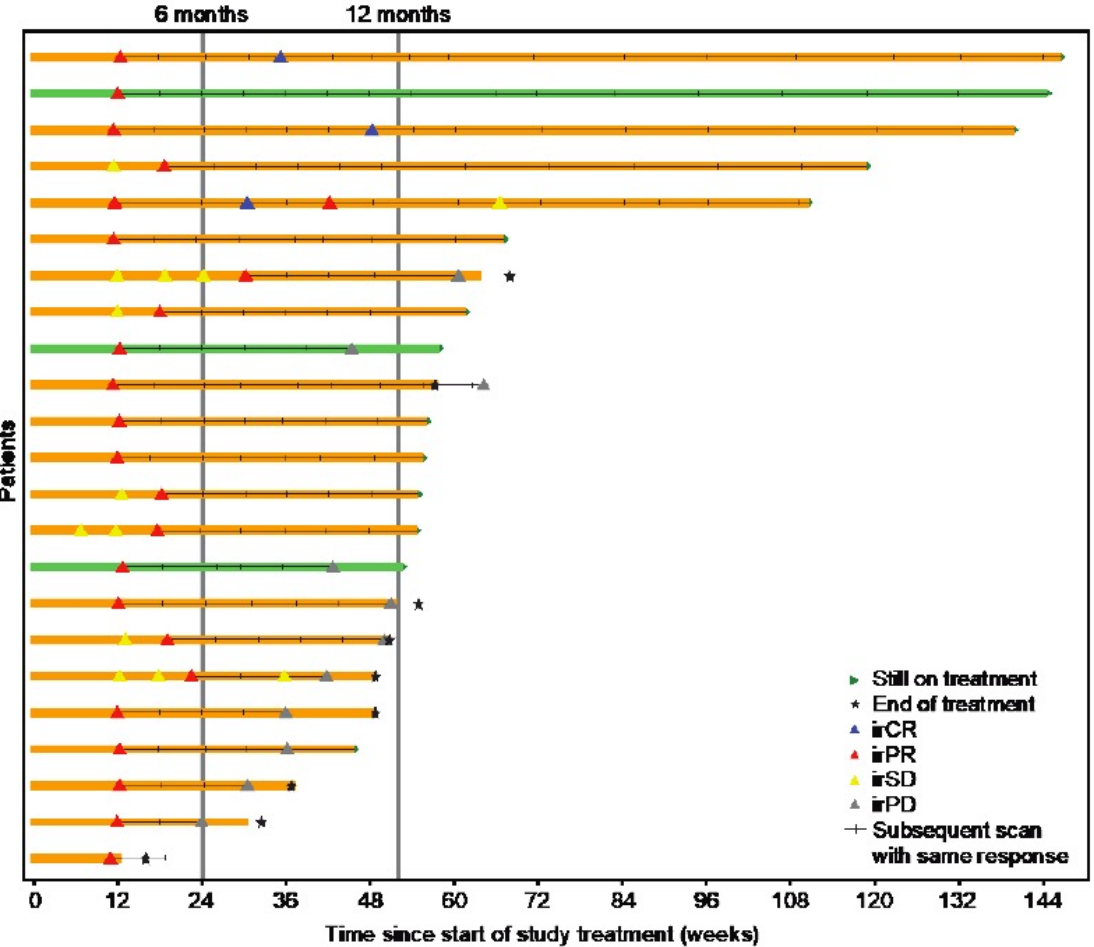
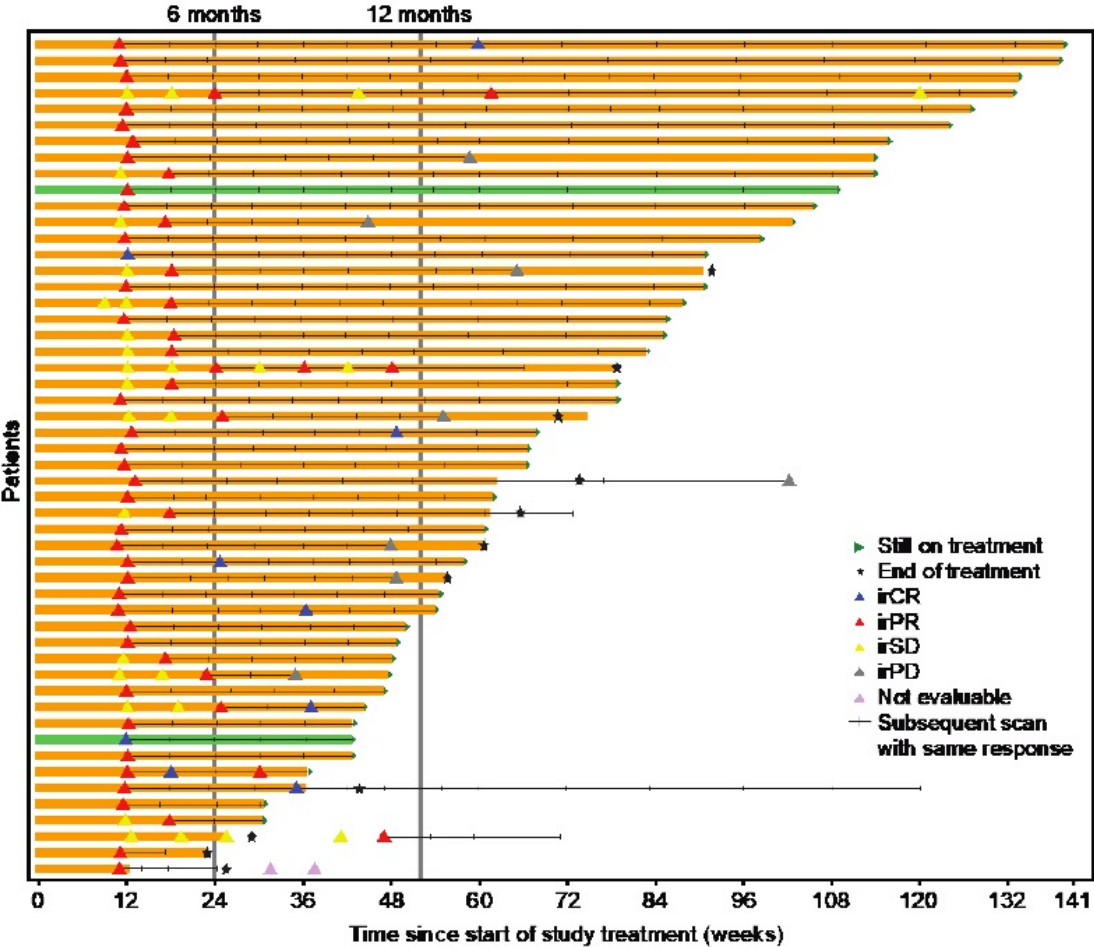
<b>(irRECIST by investigator assessment)</b>		
<b>Variable</b>	<b>dMMR N=110</b>	<b>MMRp N=144</b>
Follow-up, median (range), months	16.5 (0.03–30.6)	13.7 (0.03–33.1)
irORR, n (%)	50 (45.5)	20 (13.9)
irCR	7 (6.4)	3 (2.1)
irPR	43 (39.1)	17 (11.8)
irSD	20 (18.2)	41 (28.5)
irPD	36 (32.7)	63 (43.8)
NE	4 (3.6)	20 (13.9)
irDCR, <sup>a</sup> n (%)	70 (63.6)	61 (42.4)
irDOR, <sup>b</sup> months	NR	12.2

<sup>a</sup>Includes CR, PR, and SD  $\geq$ 12 weeks; <sup>b</sup>Only includes responders.

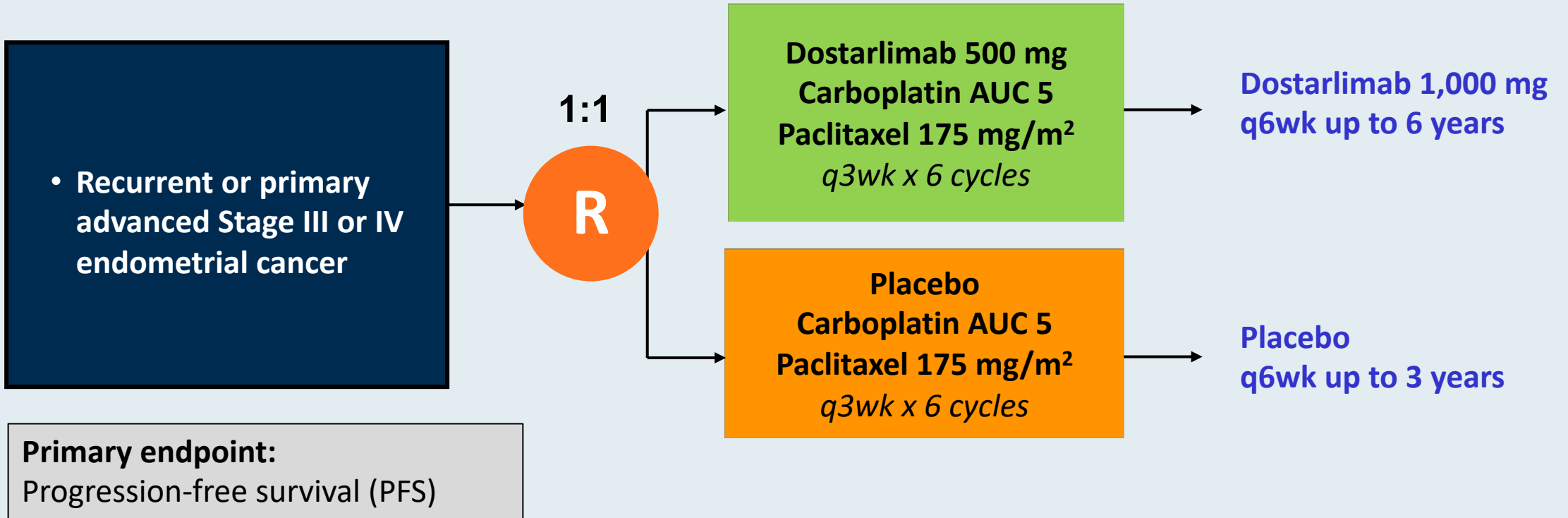
# GARNET: Duration of Response

dMMR

MMRp



# ENGOT-EN6/NSGO-RUBY Phase III Schema

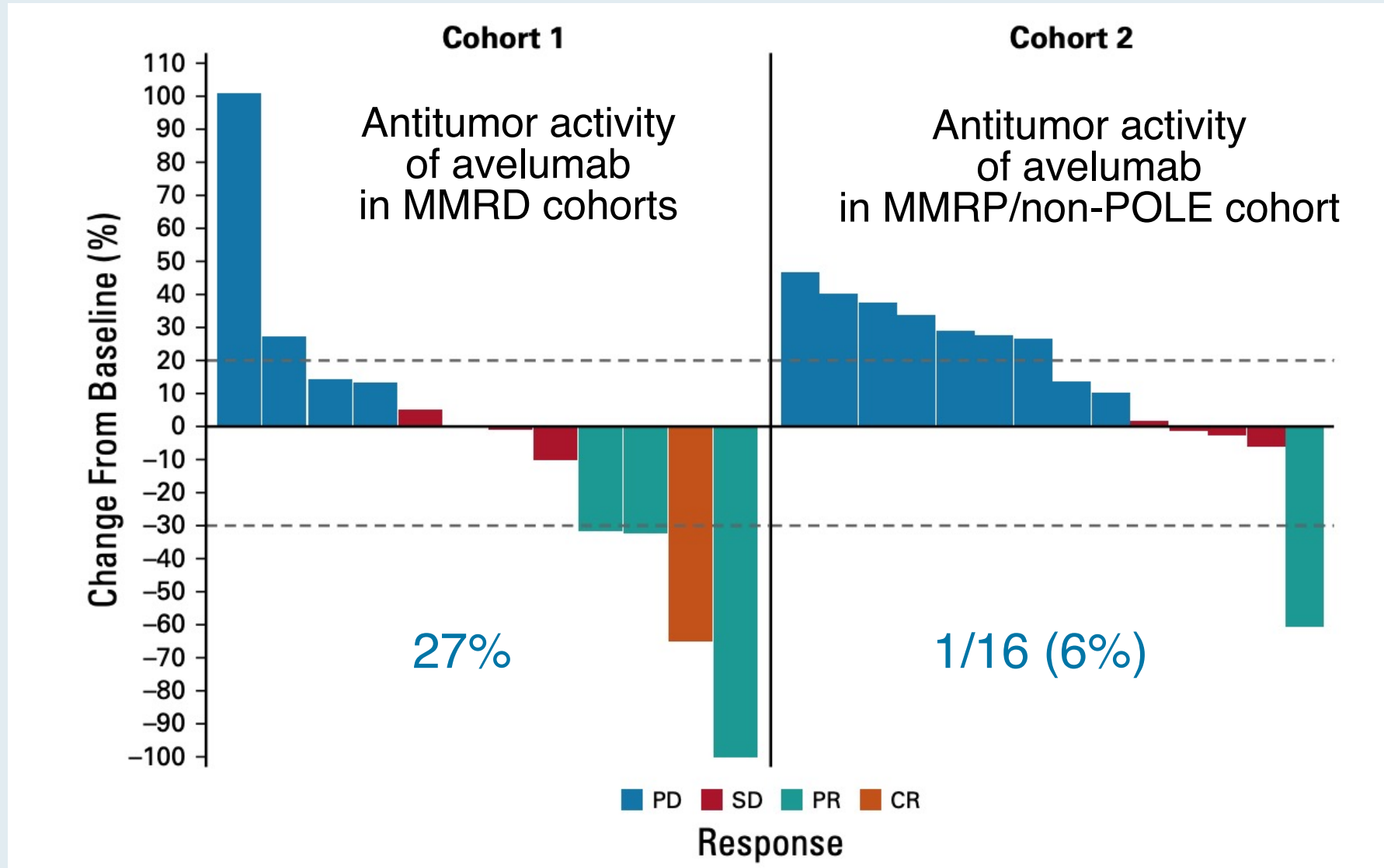


# Phase II Study of Avelumab in Patients With Mismatch Repair Deficient and Mismatch Repair Proficient Recurrent/Persistent Endometrial Cancer

Panagiotis A. Konstantinopoulos, MD, PhD<sup>1</sup>; Weixiu Luo, MS<sup>1</sup>; Joyce F. Liu, MD<sup>1</sup>; Doga C. Gulhan, PhD<sup>2</sup>; Carolyn Krasner, MD<sup>1</sup>; Jeffrey J. Ishizuka, MD, DPhil<sup>1</sup>; Allison A. Gockley, MD<sup>3</sup>; Mary Buss, MD, MPH<sup>4</sup>; Whitfield B. Growdon, MD<sup>5</sup>; Heather Crowe<sup>5</sup>; Susana Campos, MD, MPH<sup>1</sup>; Neal I. Lindeman, MD<sup>3</sup>; Sarah Hill, MD, PhD<sup>3</sup>; Elizabeth Stover, MD, PhD<sup>1</sup>; Susan Schumer, MD<sup>1</sup>; Alexi A. Wright, MD, MPH<sup>1</sup>; Jennifer Curtis, MS<sup>1</sup>; Roxanne Quinn<sup>1</sup>; Christin Whalen, RN<sup>1</sup>; Kathryn P. Gray, PhD<sup>1</sup>; Richard T. Penson, MD<sup>5</sup>; Stephen A. Cannistra, MD<sup>4</sup>; Gini F. Fleming, MD<sup>6</sup>; and Ursula A. Matulonis, MD<sup>1</sup>

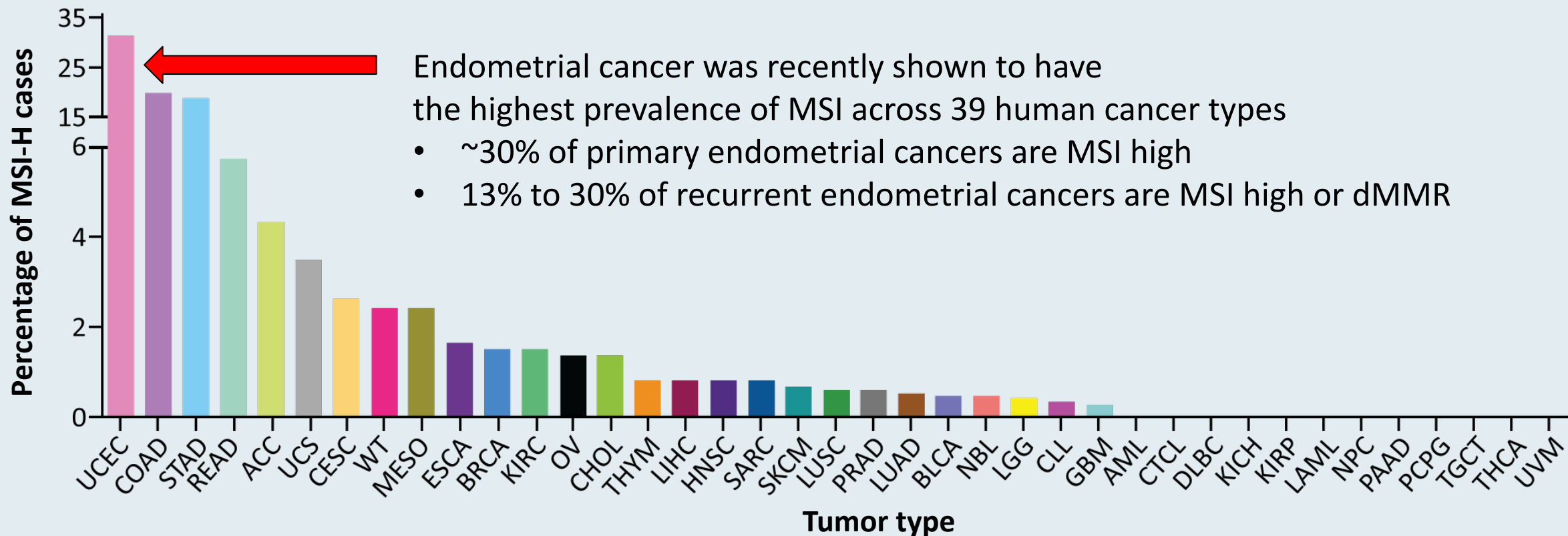
*J Clin Oncol* 2019;37(30):2786-94

# Objective Response Rate: Avelumab



# High MSI 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



UCEC = uterine corpus endometrial carcinoma

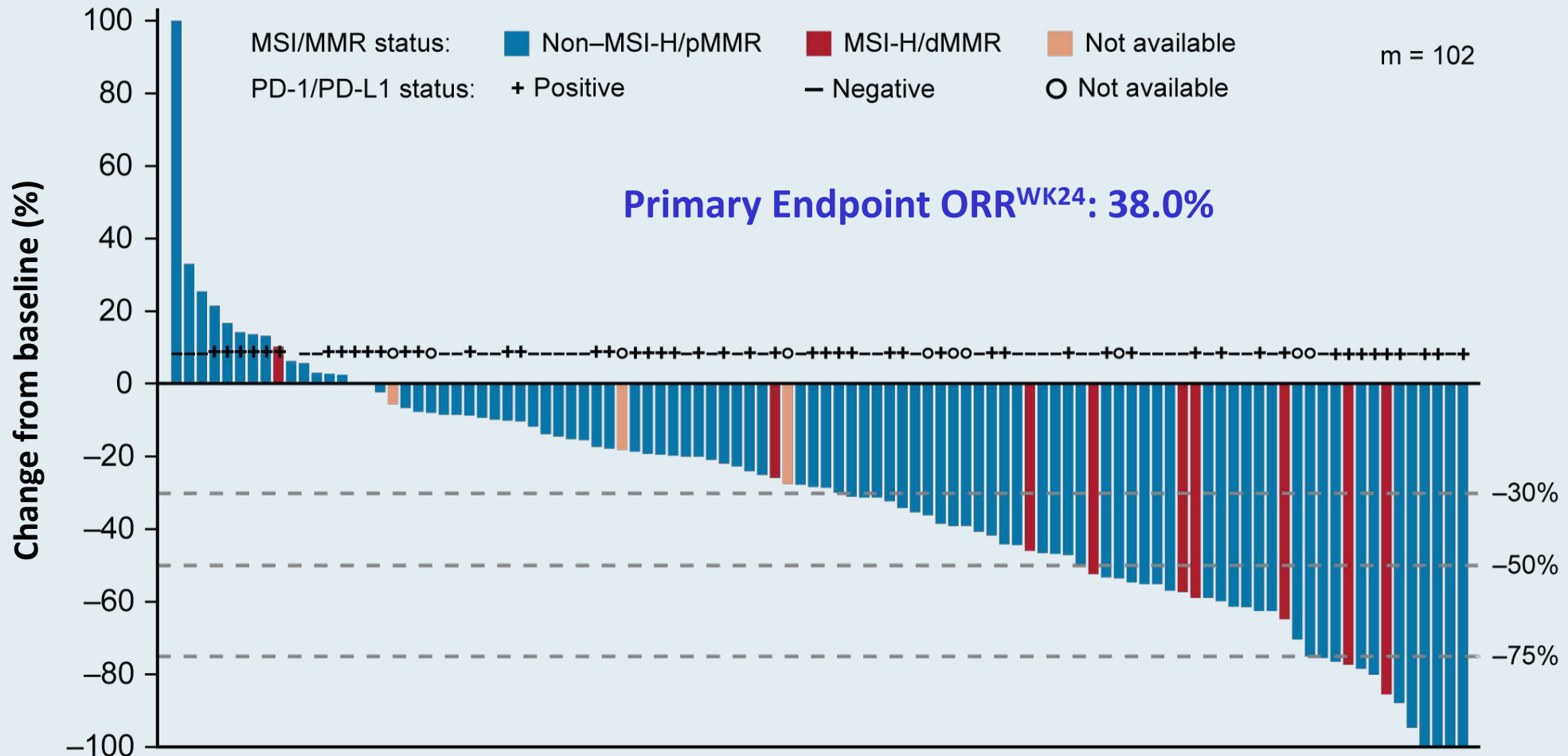
# Lenvatinib Plus Pembrolizumab in Patients With Advanced Endometrial Cancer

Vicky Makker, MD<sup>1</sup>; Matthew H. Taylor, MD<sup>2</sup>; Carol Aghajanian, MD<sup>1</sup>; Ana Oaknin, MD, PhD<sup>3</sup>; James Mier, MD<sup>4</sup>; Allen L. Cohn, MD<sup>5</sup>; Margarita Romeo, MD, PhD<sup>6</sup>; Raquel Bratos, MD<sup>7</sup>; Marcia S. Brose, MD, PhD<sup>8</sup>; Christopher DiSimone, MD<sup>9</sup>; Mark Messing, MD<sup>10</sup>; Daniel E. Stepan, MD<sup>11</sup>; Corina E. Dutcus, MD<sup>12</sup>; Jane Wu, PhD<sup>12</sup>; Emmett V. Schmidt, MD, PhD<sup>13</sup>; Robert Orlowski, MD<sup>13</sup>; Pallavi Sachdev, PhD<sup>12</sup>; Robert Shumaker, PhD<sup>11</sup>; and Antonio Casado Herraiez, MD, PhD<sup>14</sup>

*J Clin Oncol* 2020;38(26):2981-92



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



**A Multicenter, Open-Label, Randomized, Phase III Study to Compare the Efficacy and Safety of Lenvatinib in Combination with Pembrolizumab versus Treatment of Physician's Choice in Patients with Advanced Endometrial Cancer: Study 309/KEYNOTE-775**

Makker V et al.

SGO 2021;Abstract 11512.

# Study 309/KEYNOTE-775: Phase III Trial Schema

## Key eligibility criteria

- Advanced, metastatic, or recurrent endometrial cancer
- Measurable disease by BICR
- 1 Prior platinum-based CT<sup>a</sup>
- ECOG PS 0-1
- Tissue available for MMR testing

## Stratification factors

**MMR status** (pMMR vs dMMR) and further stratification within pMMR by:

- Region (R1: Europe, USA, Canada, Australia, New Zealand, and Israel, vs R2: rest of the world)
- ECOG PS (0 vs 1)
- Prior history of pelvic radiation (Y vs N)

R  
(1:1)

**Lenvatinib**  
20 mg PO QD  
+  
**Pembrolizumab<sup>b</sup>**  
200 mg IV Q3W

Treat until progression or unacceptable toxicity

**Doxorubicin**  
60 mg/m<sup>2</sup> IV Q3W<sup>c</sup>  
or  
**Paclitaxel**  
80 mg/m<sup>2</sup> IV QW  
(3 weeks on/1 week off)

## Primary endpoints

- PFS by BICR
- Overall survival

## Secondary endpoints

- ORR
- HRQoL
- Pharmacokinetics
- Safety

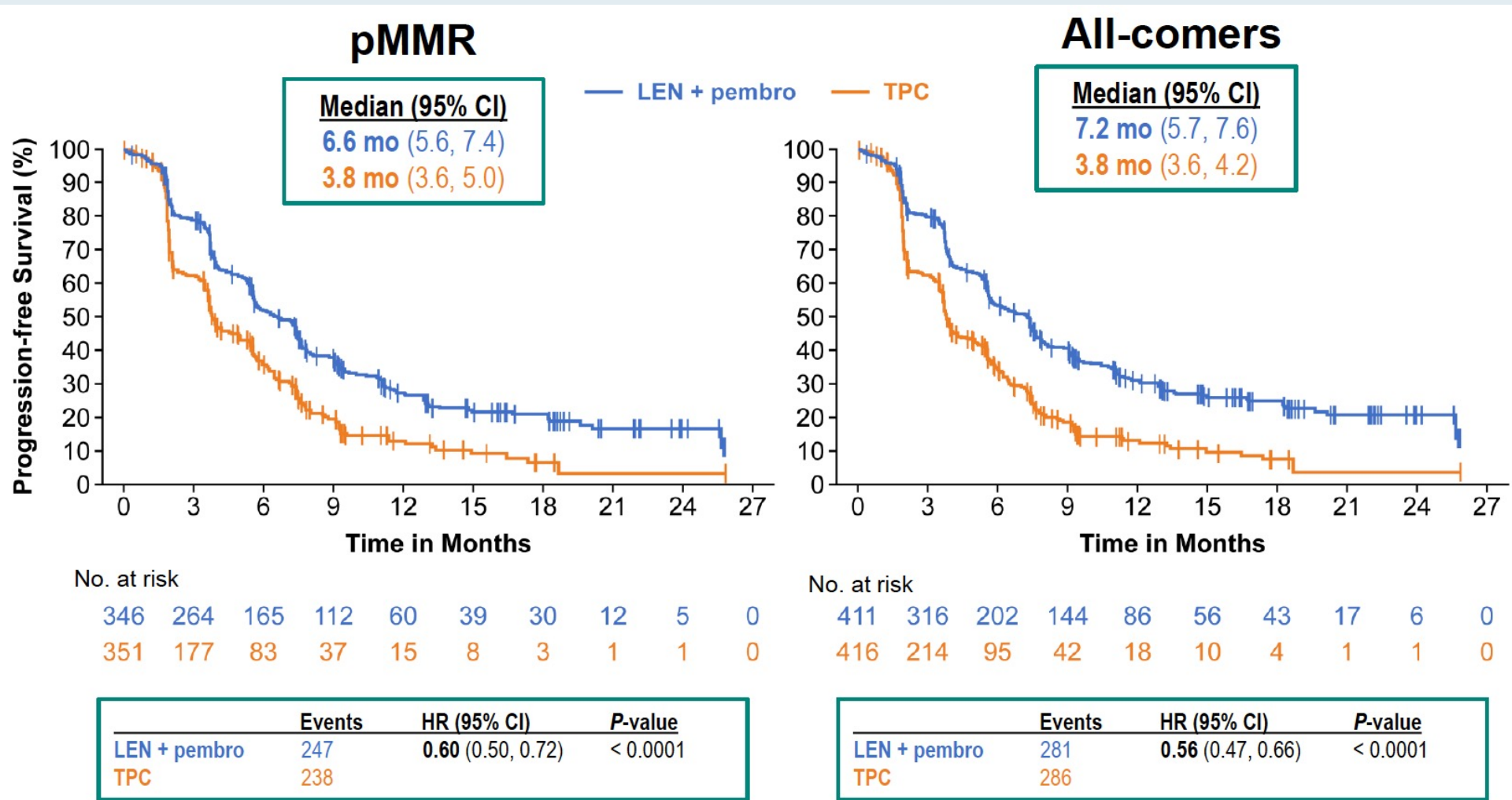
## Key exploratory endpoint

- Duration of response

<sup>a</sup>Patients may have received up to 2 prior platinum-based CT regimens if 1 is given in the neoadjuvant or adjuvant treatment setting. <sup>b</sup>Maximum of 35 doses. <sup>c</sup>Maximum cumulative dose of 500 mg/m<sup>2</sup>.

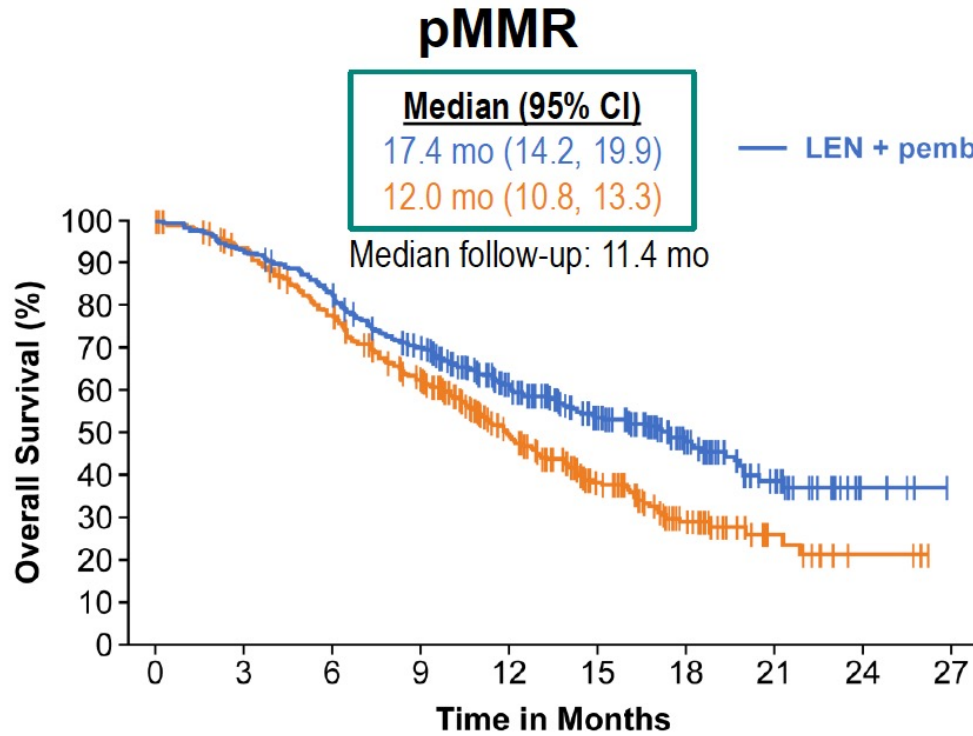
BICR, blinded independent central review; ECOG PS, Eastern Cooperative Oncology Group performance status; HRQoL, health-related quality of life; IV, intravenous; PFS, progression-free survival; pMMR, mismatch repair-proficient; ORR, objective response rate; PO, per os (by mouth); QD, once daily; Q3W, every 3 weeks; QW, once weekly.

# Study 309/KEYNOTE-775: Progression-Free Survival



<sup>a</sup>By BICR per Response Evaluation Criteria in Solid Tumors version 1.1.

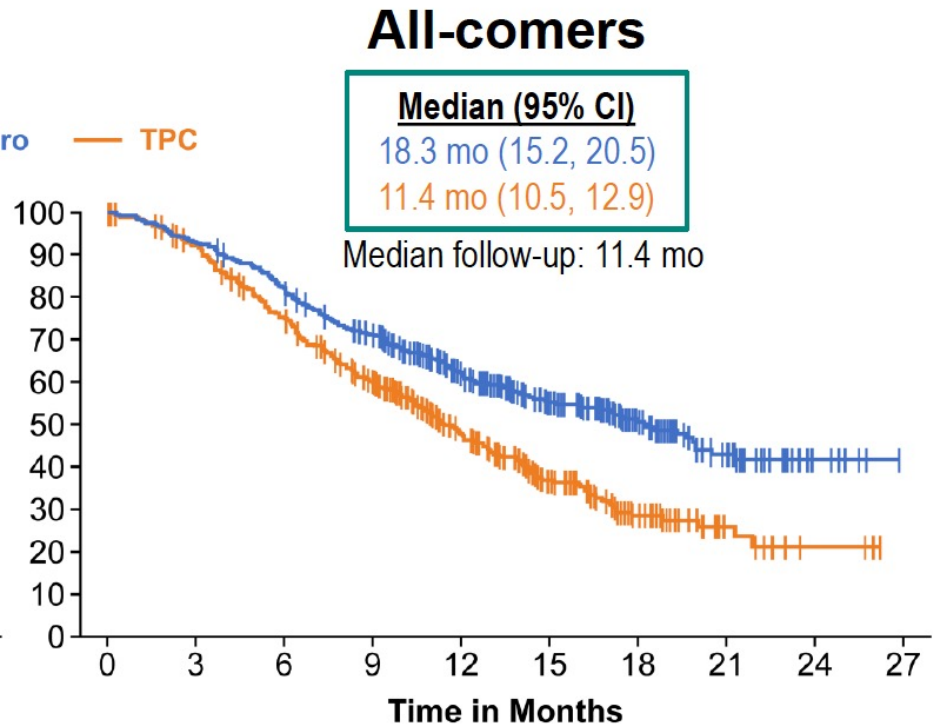
# Study 309/KEYNOTE-775: Overall Survival



No. at risk

346	322	285	232	160	109	62	28	5	0
351	319	262	201	120	70	33	11	3	0

	Events	HR (95% CI)	P-value
LEN + pembro	165	0.68 (0.56, 0.84)	0.0001
TPC	203		



No. at risk

411	383	337	282	198	136	81	40	7	0
416	373	300	228	138	80	40	11	3	0

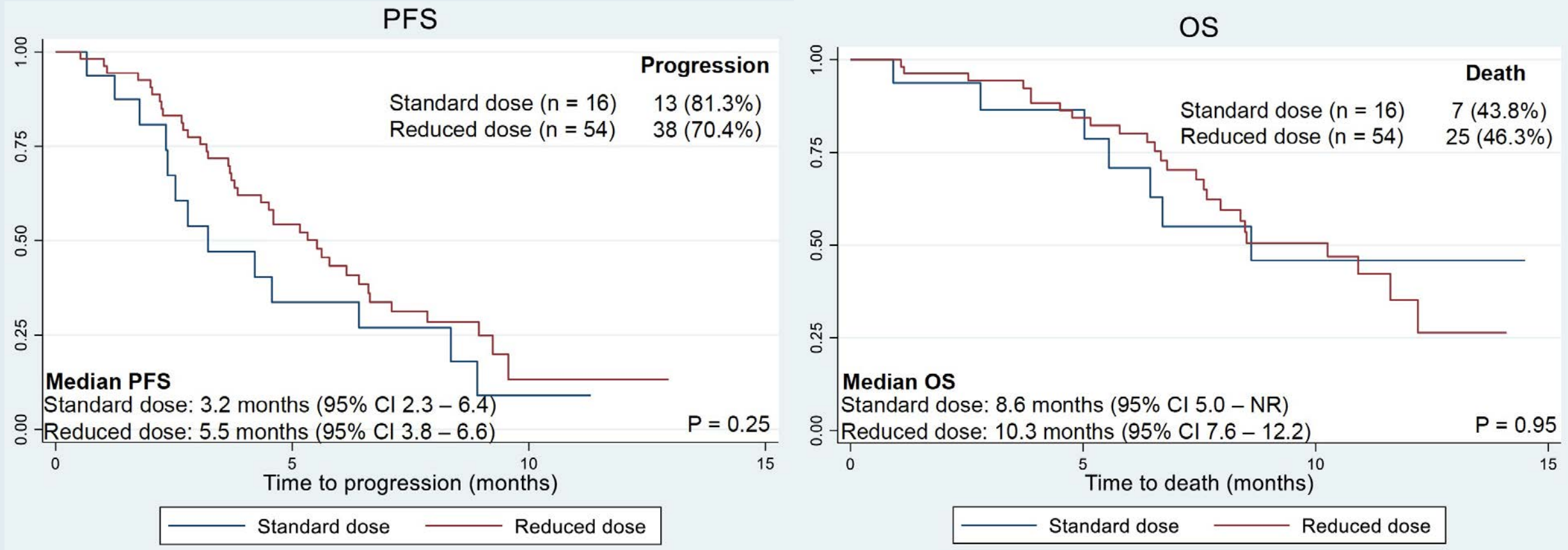
	Events	HR (95% CI)	P-value
LEN + pembro	188	0.62 (0.51, 0.75)	< 0.0001
TPC	245		

# The Use of Pembrolizumab and Lenvatinib Combination Therapy in Endometrial Cancer: An Examination of Toxicity and Treatment Efficacy in Clinical Practice

How JA et al.

SGO 2021;Abstract 10775.

# Retrospective Analysis of Reduced-Dose Lenvatinib (<20 mg) with Pembrolizumab at MD Anderson Cancer Center



- Reduced starting dose of lenvatinib was associated with longer time to treatment toxicity and fewer dose de-escalations.
- “Published studies and these results may support using lenvatinib at a starting dose of 14 mg daily in clinical practice.”

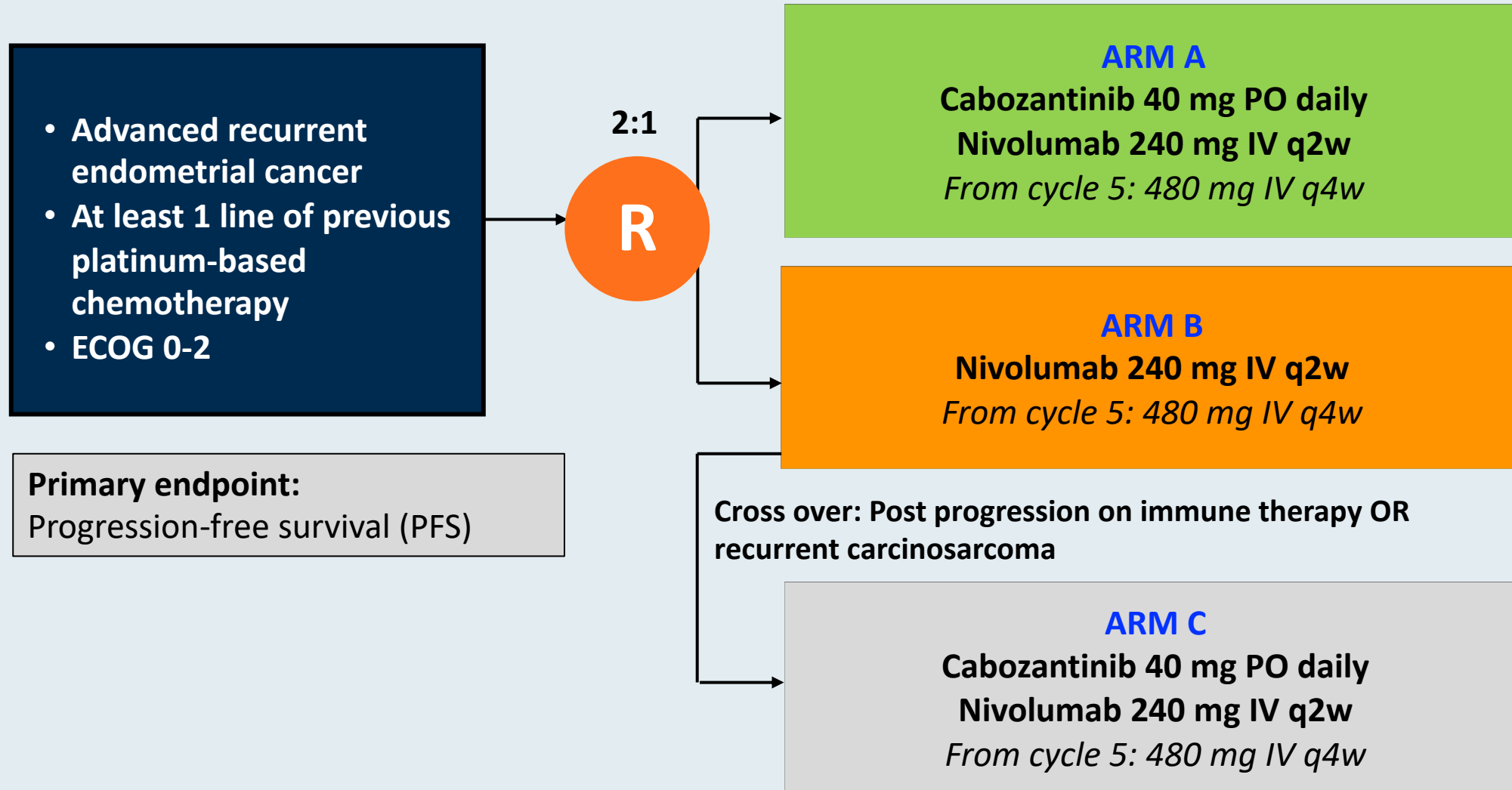
# **NCI 10104: A Randomized Phase 2 Study of Cabozantinib in Combination with Nivolumab in Advanced, Recurrent Metastatic Endometrial Cancer**

Lheureux S et al.

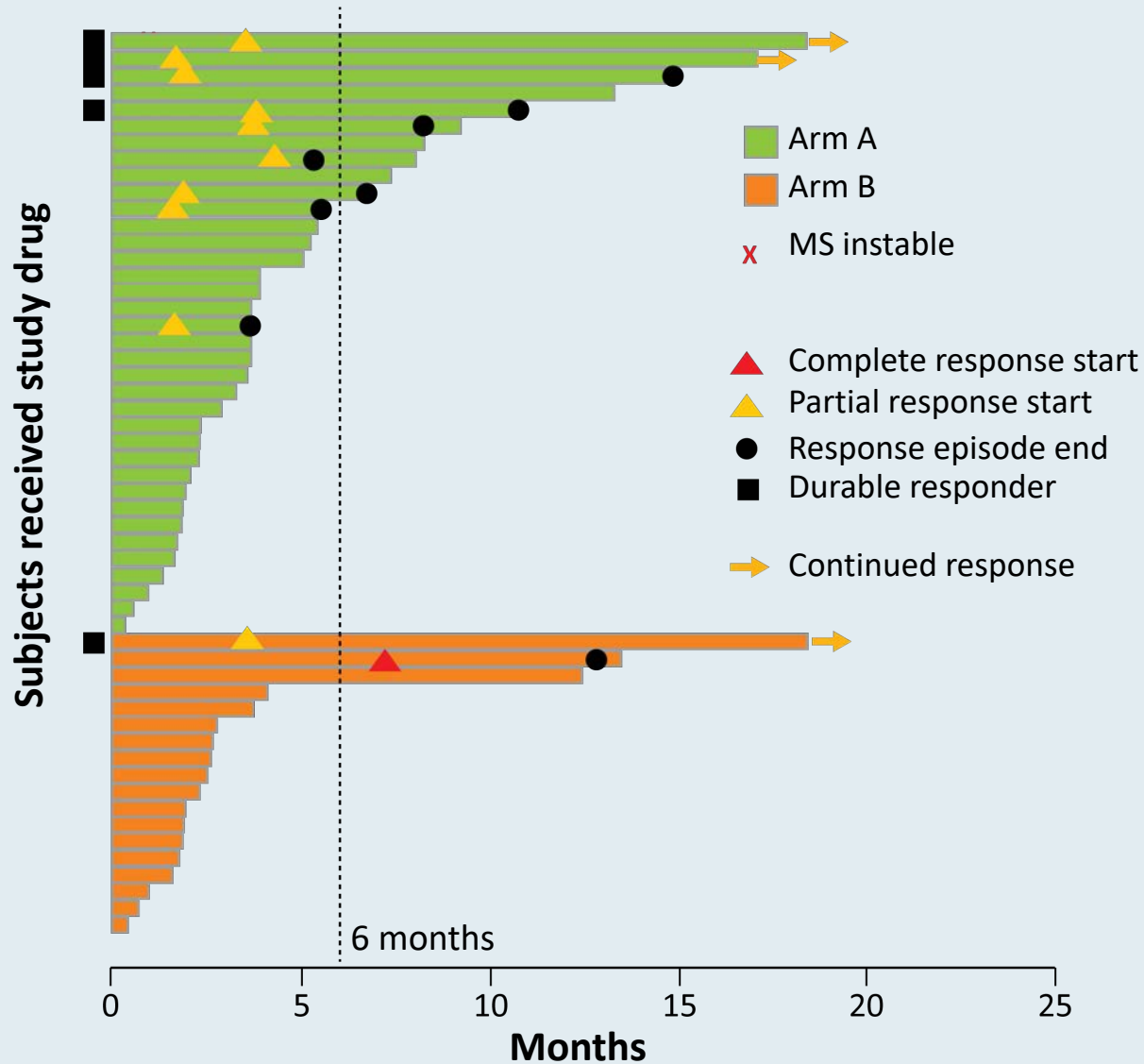
ASCO 2020;Abstract 6010.



# 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>

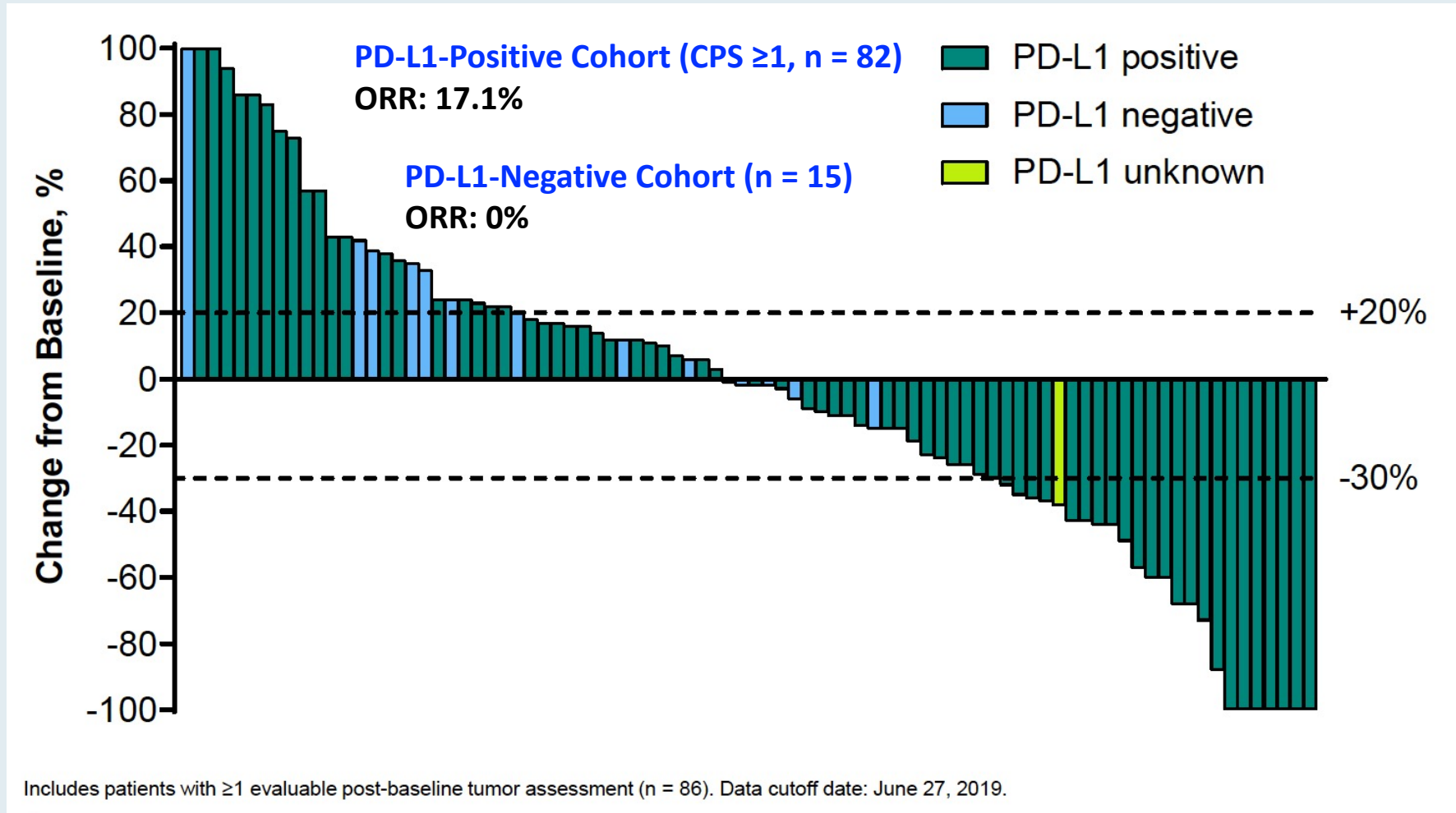
# Anti-PD-1/PD-L1 Antibodies in Cervical Cancer

# **Pembrolizumab Treatment of Advanced Cervical Cancer: Updated Results from the Phase II KEYNOTE-158 Study**

Chung HC et al.

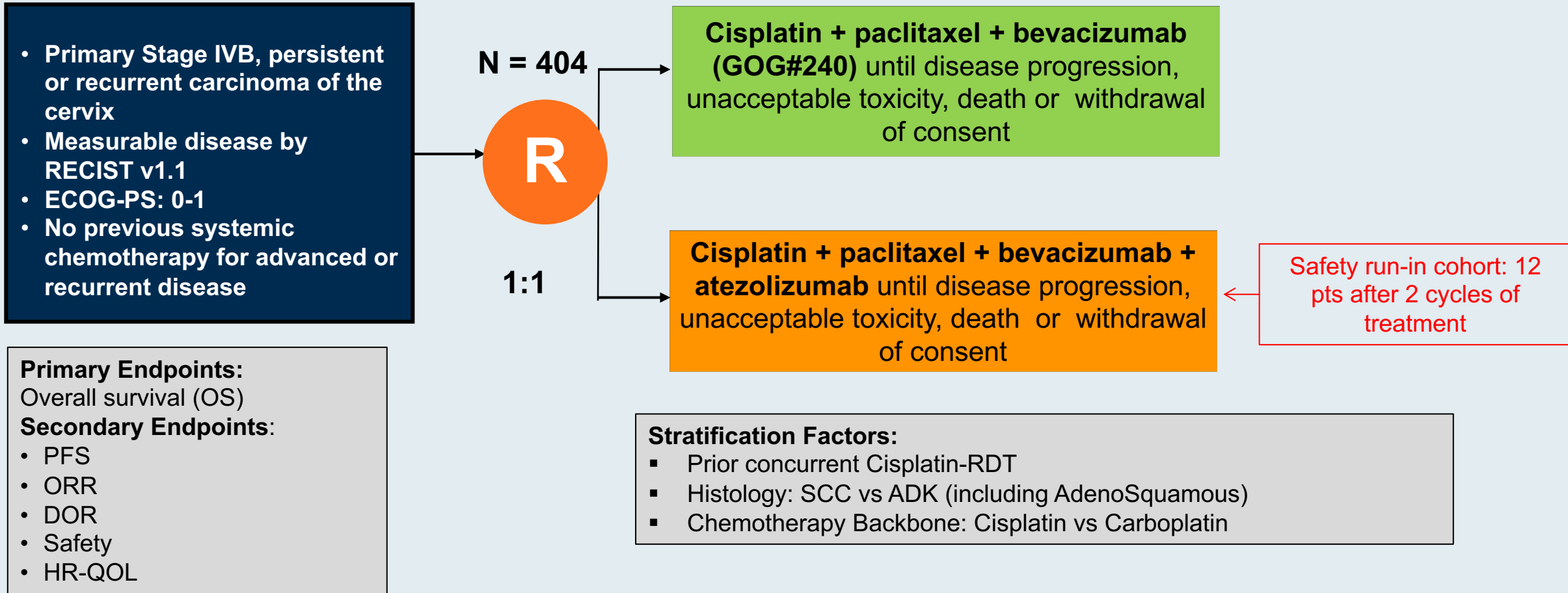
SGO 2021;Abstract 10440.

# Phase II KEYNOTE-158: Updated Results with Pembrolizumab for Previously Treated Advanced Cervical Cancer

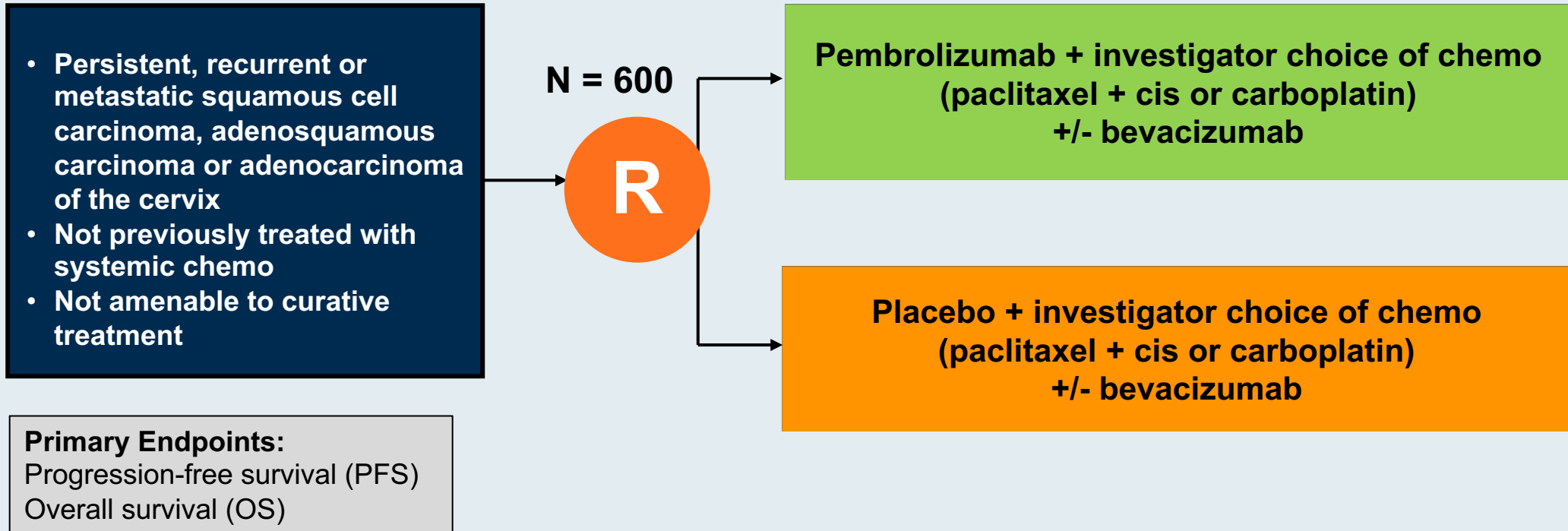


**Combined Positive Score (CPS)** = PD-L1+ cells (tumor cells, lymphocytes, macrophages) / Total number of tumor cells x 100

# BEATcc Phase III Randomized Front-Line Trial of Atezolizumab

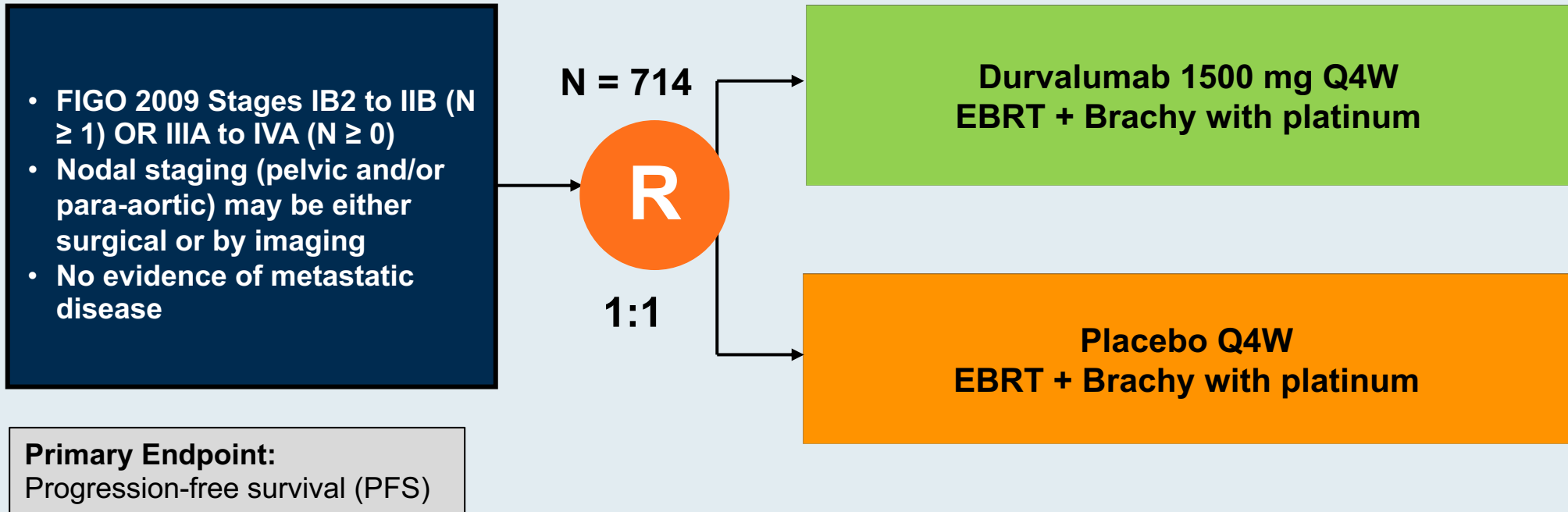


# KEYNOTE-826 Phase III Schema





# 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

**Cohort A**  
1-3 prior lines  
PFI or TFI of 3-12 months

Total enrollment: n = 285

↑  
Pembrolizumab 200 mg IV q3wk until PD,  
prohibitive toxicity, death, or completion of 2 years  
↓

**Cohort B**  
4-6 prior lines  
PFI or TFI of ≥3 months

Total enrollment: n = 91

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

# **Avelumab Alone or in Combination with Pegylated Liposomal Doxorubicin versus Pegylated Liposomal Doxorubicin Alone in Platinum-Resistant or Refractory Epithelial Ovarian Cancer: Primary and Biomarker Analysis of the Phase III JAVELIN Ovarian 200 Trial**

Pujade-Lauraine E et al.  
SGO 2019;Abstract LBA1.

# 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)	
<b>All patients</b>						
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	
<b>PD-L1 evaluable</b>	<b>PD-L1+ (n = 91)</b>	<b>PD-L1- (n = 62)</b>	<b>PD-L1+ (n = 92)</b>	<b>PD-L1- (n = 58)</b>	<b>PD-L1+ (n = 73)</b>	<b>PD-L1- (n = 66)</b>
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



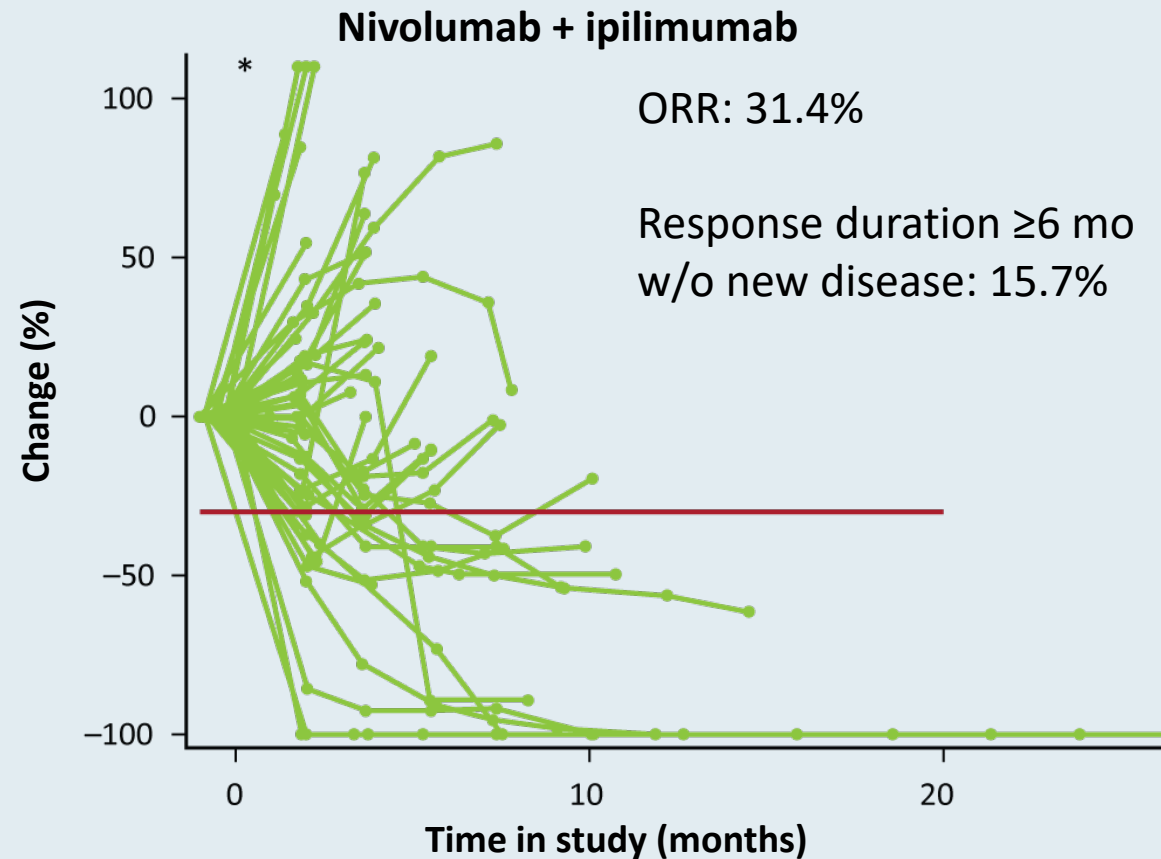
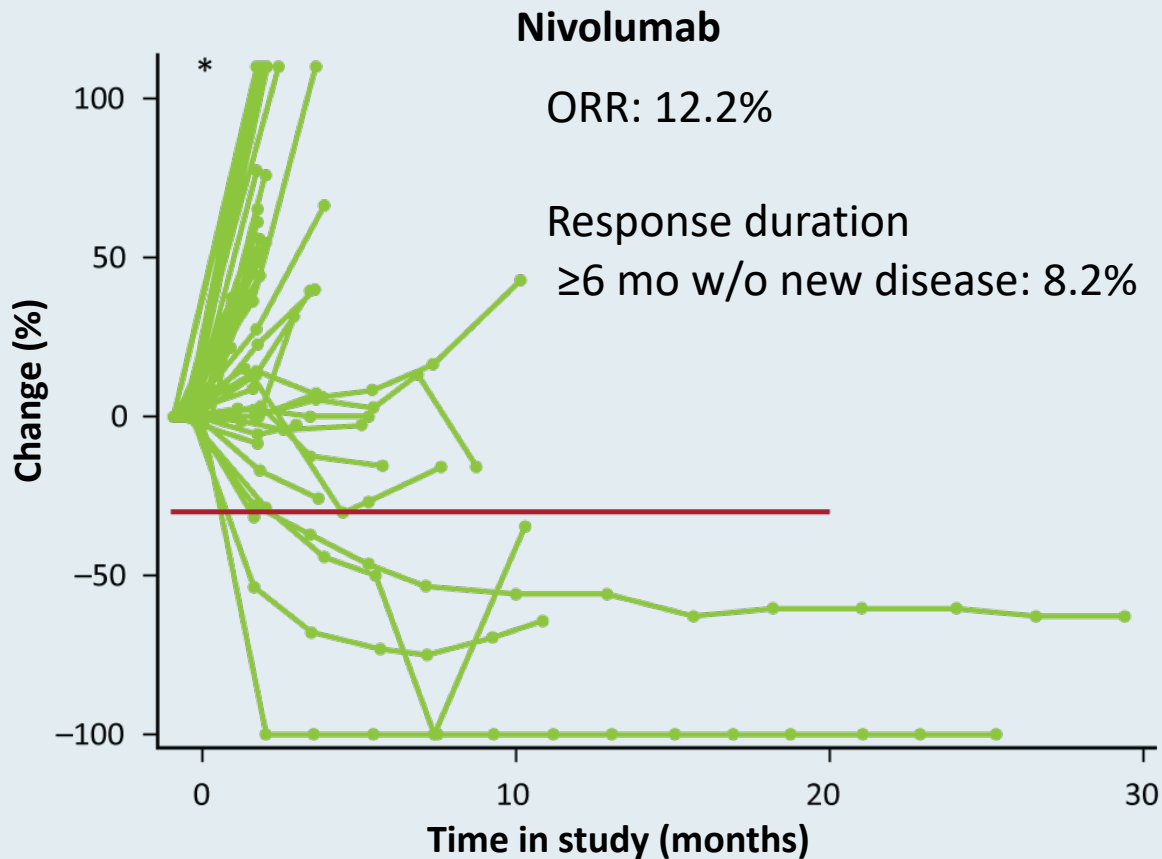
# Randomized Phase II Trial of Nivolumab Versus Nivolumab and Ipilimumab for Recurrent or Persistent Ovarian Cancer: An NRG Oncology Study

Dmitriy Zamarin, MD, PhD<sup>1</sup>; Robert A. Burger, MD<sup>2</sup>; Michael W. Sill, PhD<sup>3</sup>; Daniel J. Powell Jr, PhD<sup>4</sup>; Heather A. Lankes, PhD, MPH<sup>5</sup>; Michael D. Feldman, MD, PhD<sup>4</sup>; Oliver Zivanovic, MD, PhD<sup>1</sup>; Camille Gunderson, MD<sup>6</sup>; Emily Ko, MD, MSCR<sup>2</sup>; Cara Mathews, MD<sup>7</sup>; Sudarshan Sharma, MD<sup>8</sup>; Andrea R. Hagemann, MD<sup>9</sup>; Samir Khleif, MD<sup>10</sup>; and Carol Aghajanian, MD<sup>1</sup>

*J Clin Oncol* 2020;38:1814-23

# 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

Research

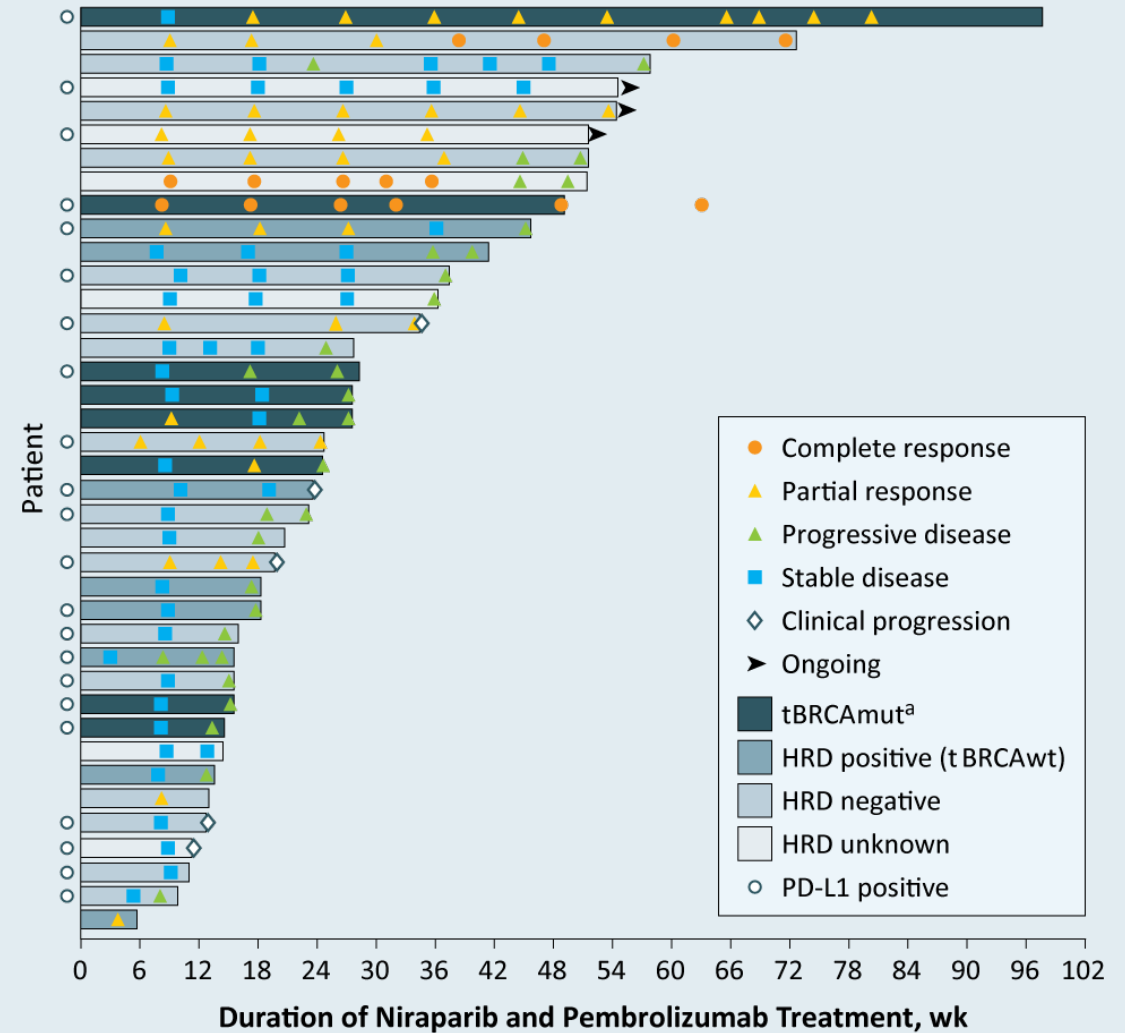
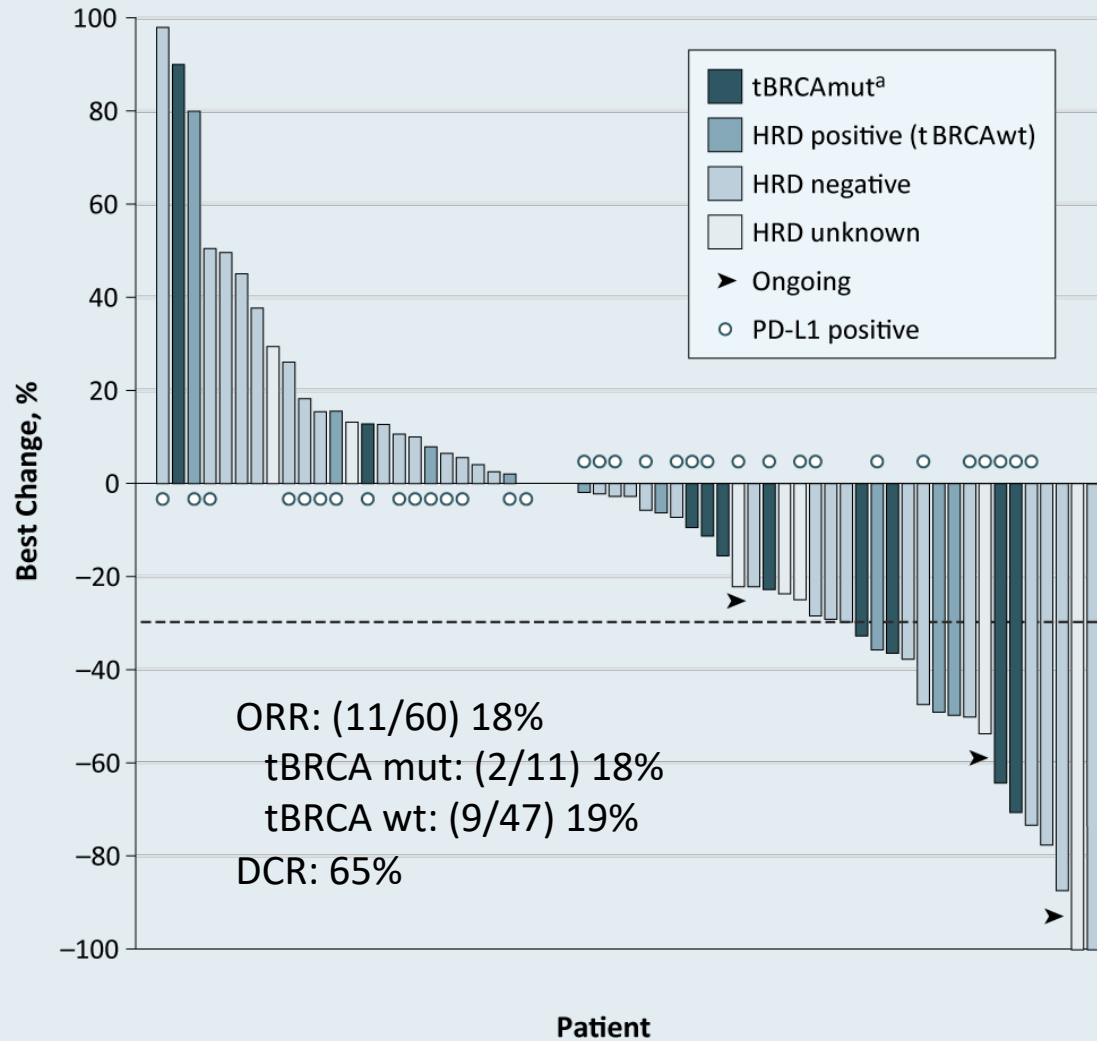
*JAMA Oncol* 2019;5(8):1141-9

JAMA Oncology | **Original Investigation**

# Single-Arm Phases 1 and 2 Trial of Niraparib in Combination With Pembrolizumab in Patients With Recurrent Platinum-Resistant Ovarian Carcinoma

Panagiotis A. Konstantinopoulos, MD, PhD; Steven Waggoner, MD; Gregory A. Vidal, MD; Monica Mita, MD; John W. Moroney, MD; Robert Holloway, MD; Linda Van Le, MD; Jasjit C. Sachdev, MD; Eloise Chapman-Davis, MD; Gerardo Colon-Otero, MD; Richard T. Penson, MD; Ursula A. Matulonis, MD; Young Bae Kim, MD; Kathleen N. Moore, MD; Elizabeth M. Swisher, MD; Anniina Färkkilä, MD; Alan D'Andrea, MD; Erica Stringer-Reasor, MD; Jing Wang, PhD; Nathan Buerstatte, MPH; Sujata Arora, MS; Julie R. Graham, PhD; Dmitri Bobilev, MD; Bruce J. Dezube, MD; Pamela Munster, MD

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



# **LEAP-005: Phase II Study of Lenvatinib (Len) plus Pembrolizumab (Pembro) in Patients (Pts) with Previously Treated Advanced Solid Tumours**

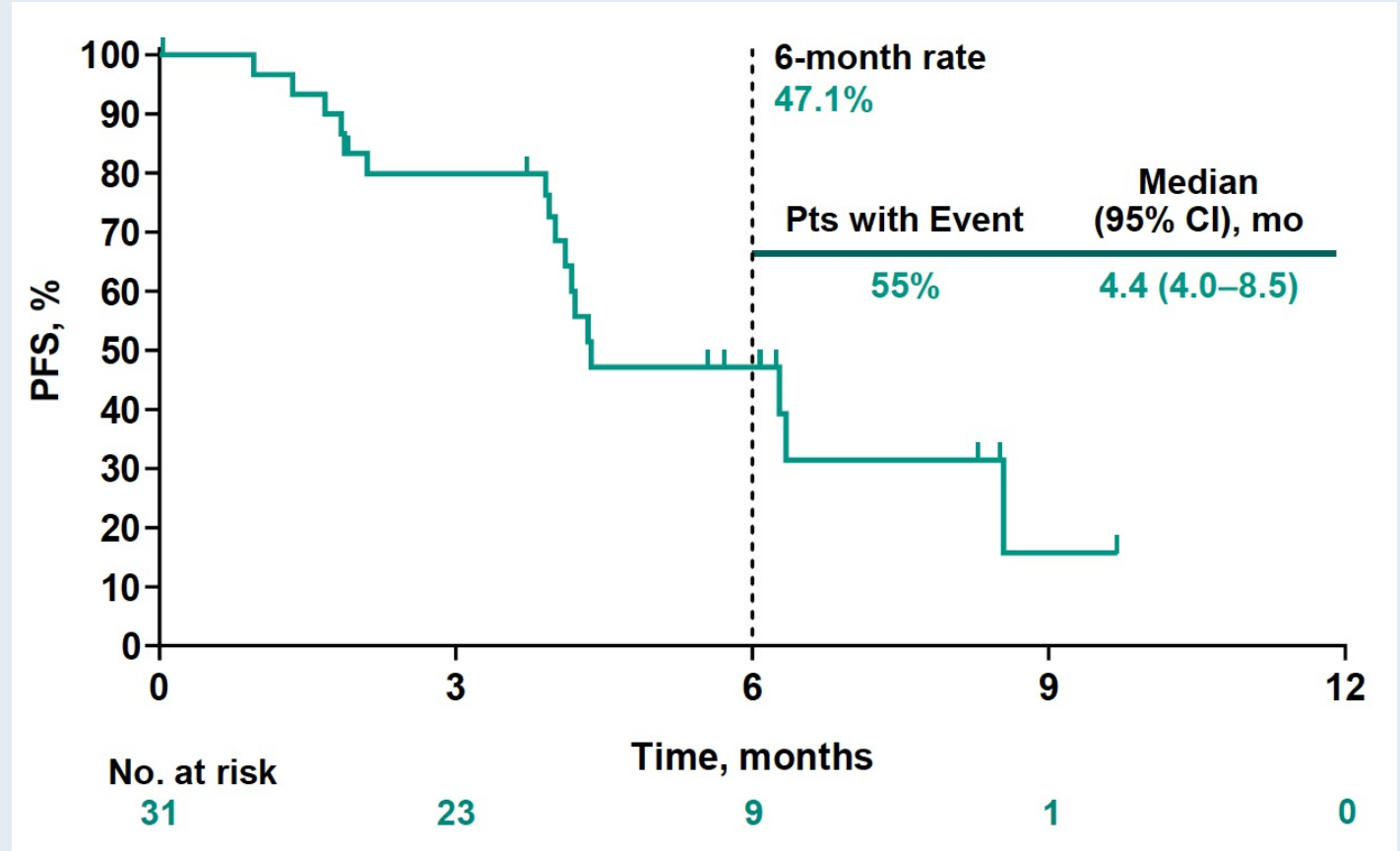
Lwin Z et al.

ESMO 2020;Abstract LBA41.

# LEAP-005: Antitumor Activity in Ovarian Cancer Cohort

	4L Ovarian Cohort (n = 31)
ORR	32.3%
CR	3%
PR	29%
DCR	74.2%
DoR (median, mo)	NR

PFS: 4L Ovarian Cohort (n = 31)



# **Phase II Study of Olaparib (O) plus Durvalumab (D) and Bevacizumab (B) (MEDIOLA): Initial Results in Patients (pts) with Non-Germline BRCA-Mutated (Non-gBRCAm) Platinum Sensitive Relapsed (PSR) Ovarian Cancer (OC)**

Drew Y et al.

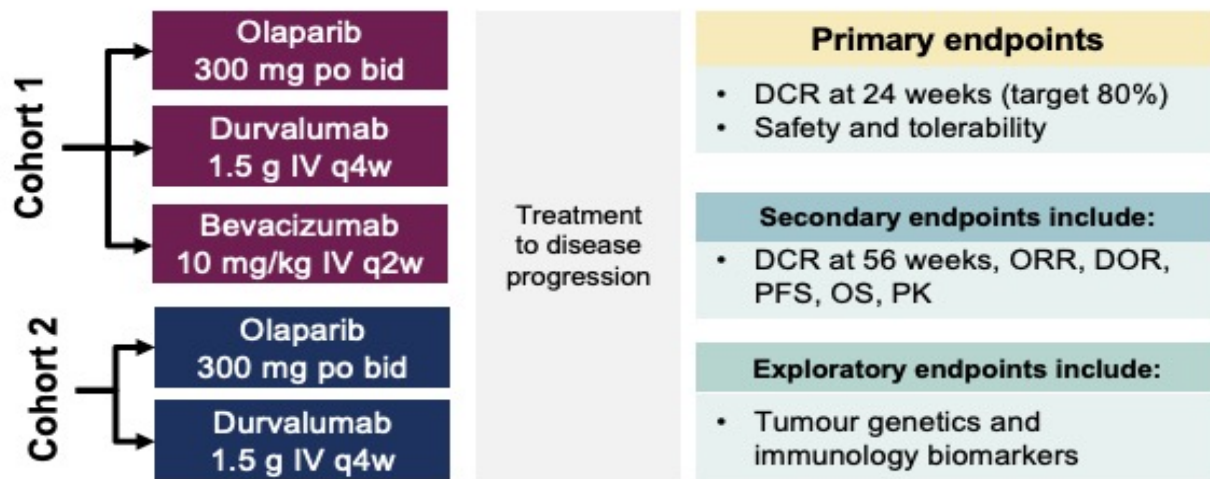
ESMO 2020;Abstract 814MO.

# MEDIOLA: gBRCAwt Cohorts

## Study Design

### Patient population

- gBRCAwt
- PSR ovarian cancer
- ≤2 prior lines of chemotherapy
- PARP inhibitor and IO agent naïve



Sequential enrolment

Tumour assessments every 8 weeks

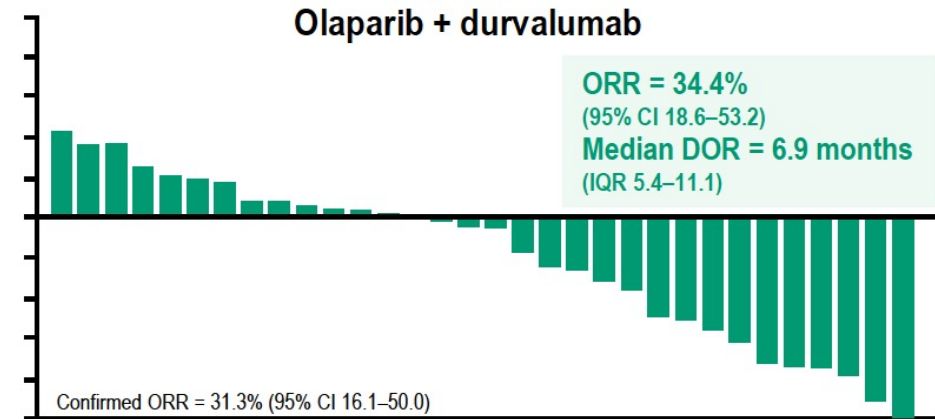
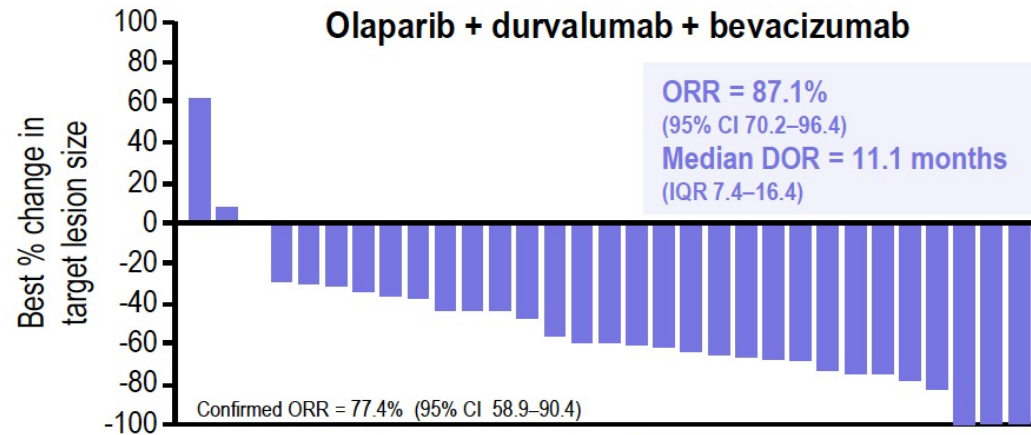
## Patient Characteristics

	Olap + durva + bev (N=31)	Olap + durva (N=32)
Median age, years	64.0	68.5
Age group (years), n (%)		
<50	3 (9.7)	4 (12.5)
≥50–<65	14 (45.2)	8 (25.0)
≥65	14 (45.2)	20 (62.5)
Race, n (%)		
White	20 (64.5)	24 (75.0)
Asian	10 (32.3)	3 (9.4)
Other	1 (3.2)	5 (15.6)
Platinum sensitivity, n (%)		
>6–12 months	18 (58.1)	14 (43.8)
>12 months	13 (41.9)	18 (56.3)
Number of prior lines of chemotherapy, n (%)		
1 prior line	20 (64.5)	23 (71.9)
2 prior lines	11 (35.5)	9 (28.1)
Enrolment completed	January 2019	February 2019
Patients on study treatment at DCO, n (%) (13 February 2020)		
Olap; durva; bev	13 (41.9); 13 (41.9); 12 (38.7)	7 (21.9); 6 (18.8); NA



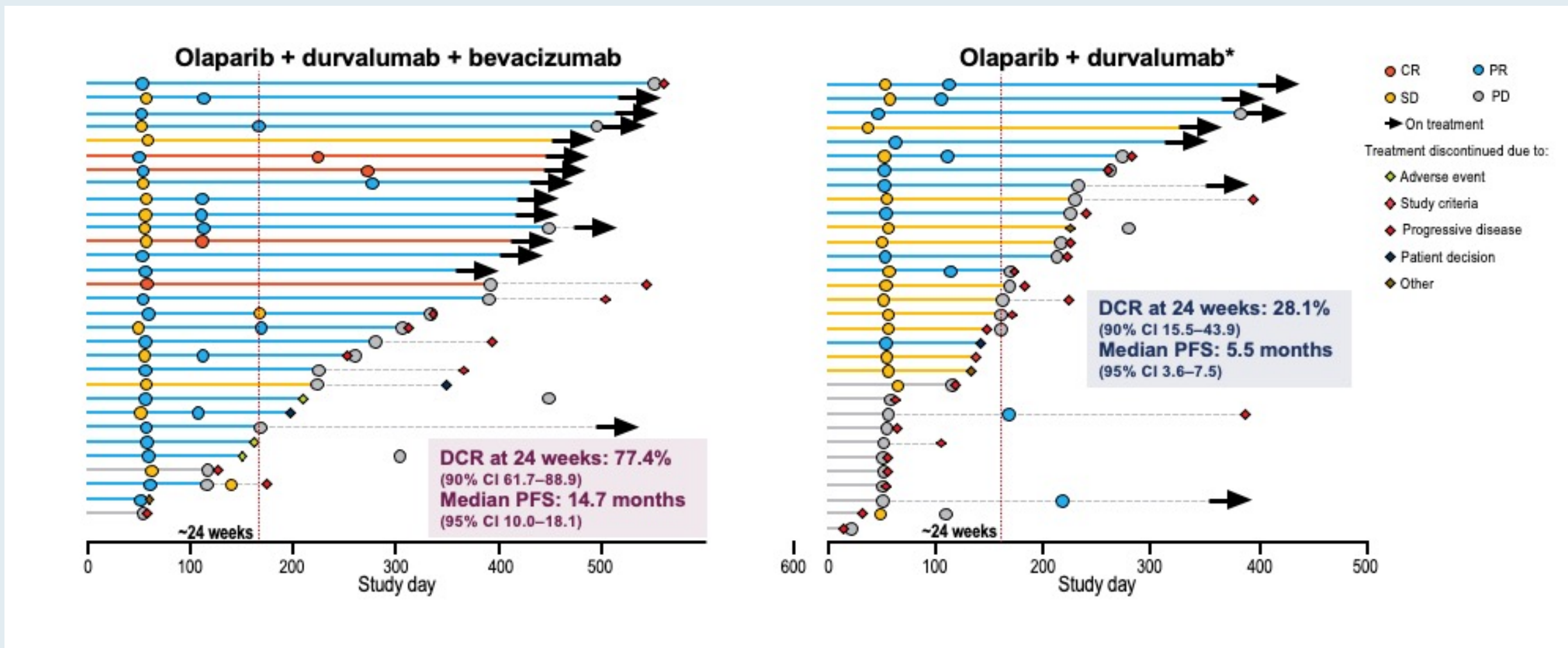
# MEDIOLA: A Phase II Study of Olaparib and Durvalumab with or without Bevacizumab for Platinum-Sensitive Relapsed OC: No Germline BRCA Mutation Cohort

Exploratory analysis suggests ORR with triplet cohort is not dependent on genomic instability status (GIS)



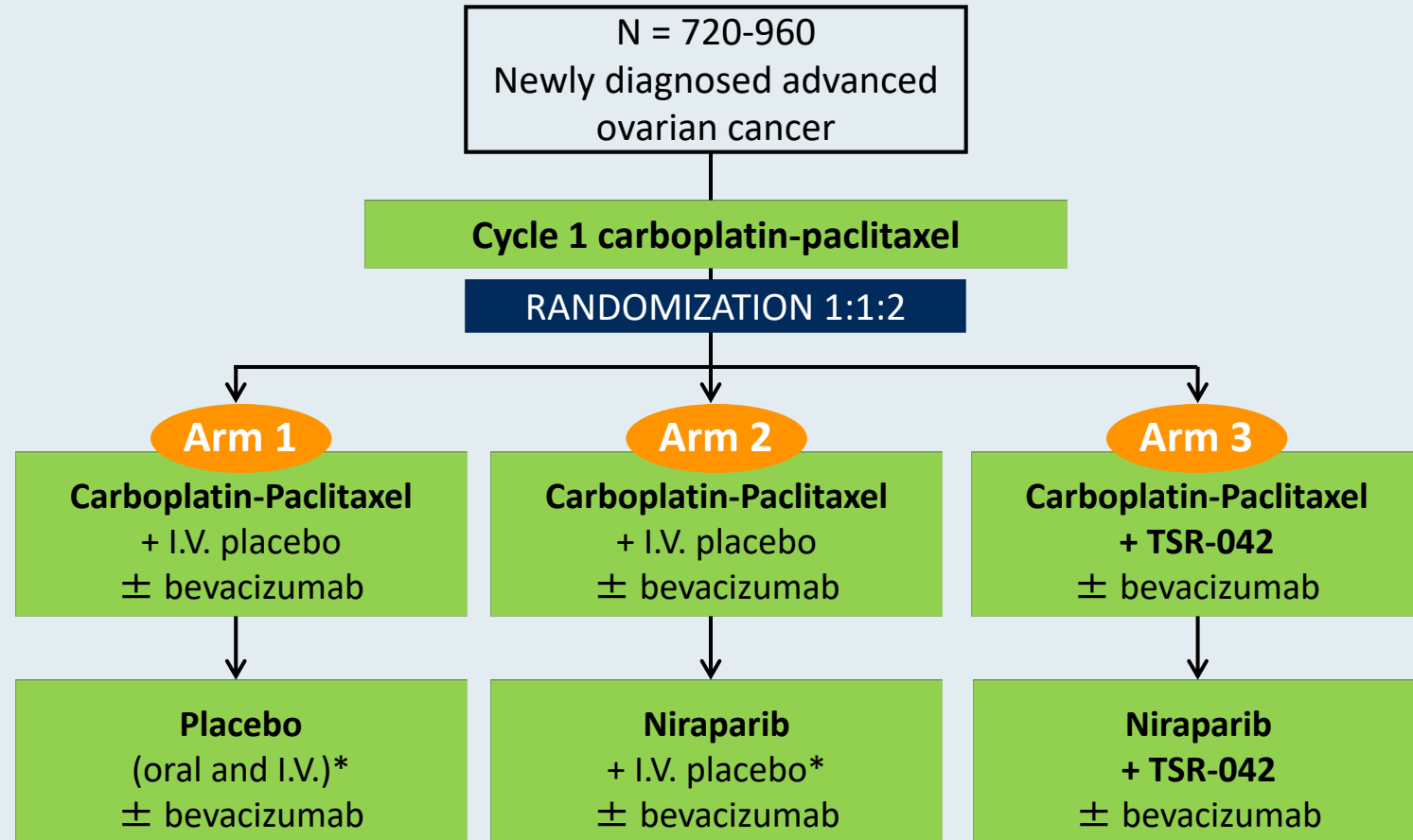
Genomic instability status* subgroup	Olaparib + durvalumab + bevacizumab		Olaparib + durvalumab	
	ORR (95% CI), %	n/N patients	ORR (95% CI), %	n/N patients
GIS-positive	100.0 (69.2-100.0)	10/10	50.0 (18.7-81.3)	5/10
GIS-negative	75.0 (34.9-96.8)	6/8	16.7 (0.4-64.1)	1/6
GIS-unknown	84.6 (54.6-98.1)	11/13	31.3 (11.0-58.7)	5/16

# MEDIOLA: TTP or Treatment Discontinuation



- Triplet cohort showed high DCT at 24 weeks and a long median PFS

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



\*I.V. placebo up to 15 months in total

**Primary endpoint: PFS**  
**Secondary endpoints: ORR, DOR, DCR, PROs, TFST, TSST, PFS2, OS**

# 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

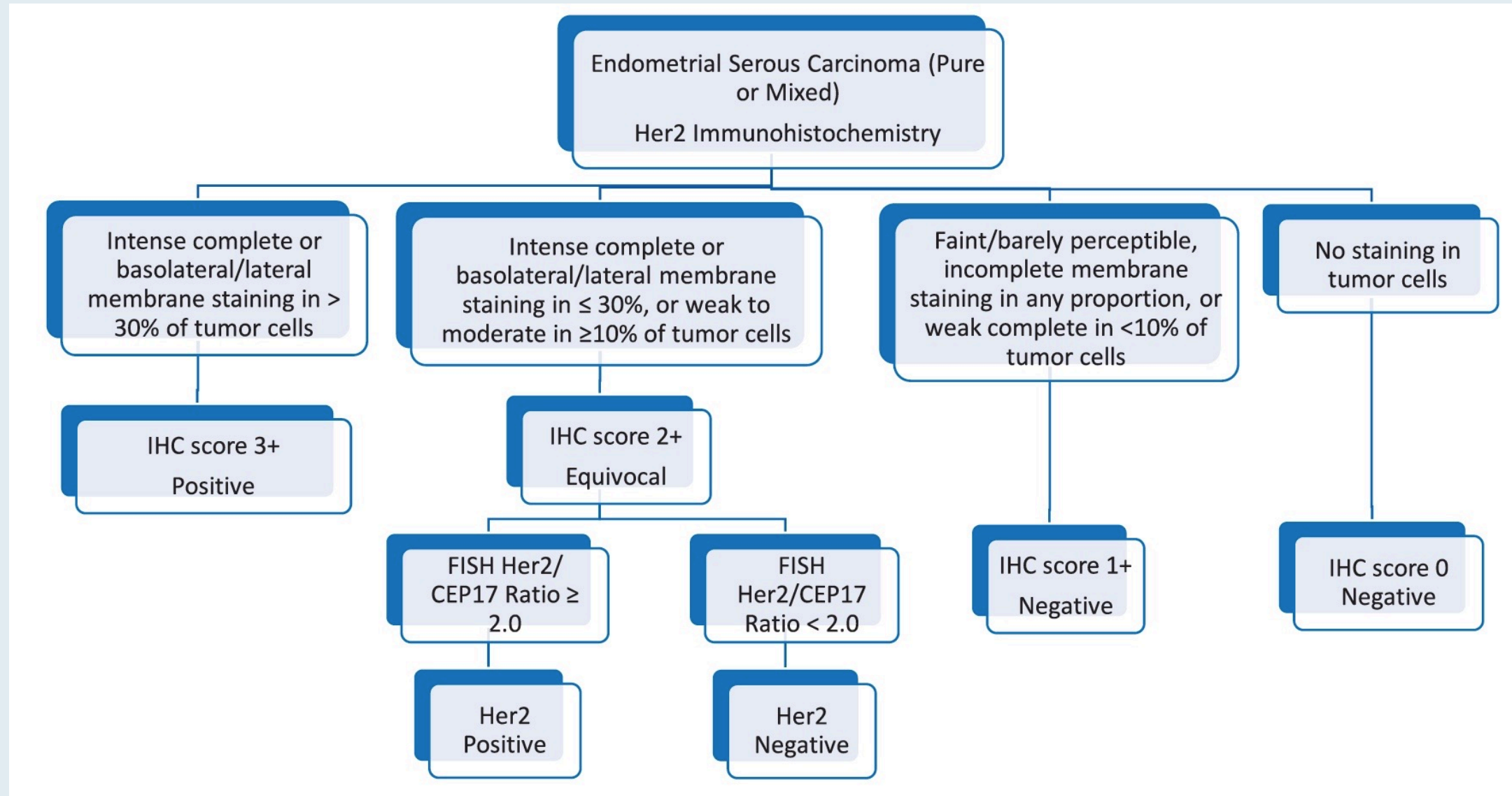
# HER2 Testing in Endometrial Serous Carcinoma

## 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

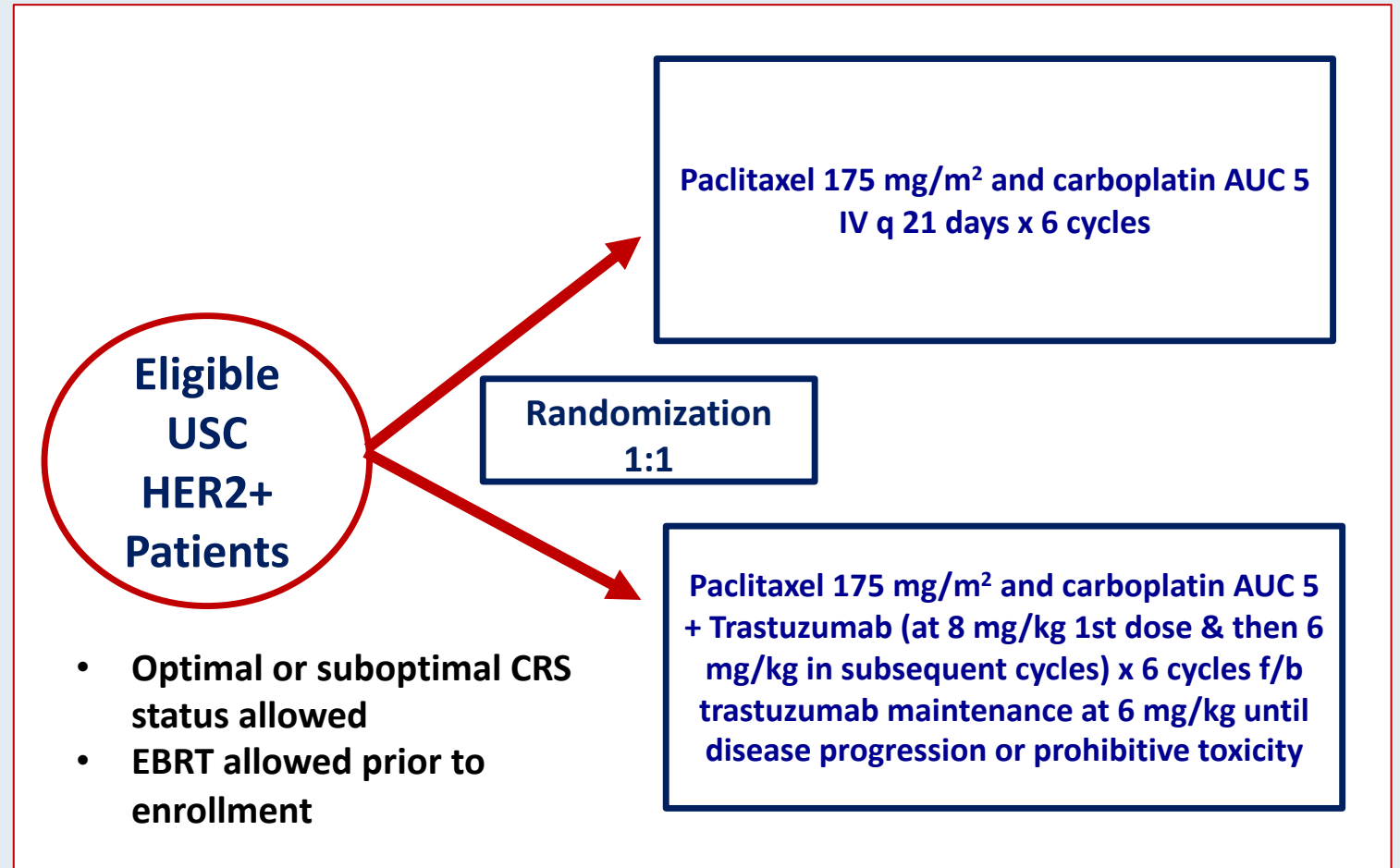




# Randomized Phase II Trial of Carboplatin/Paclitaxel versus Carboplatin/Paclitaxel/Trastuzumab for Uterine Serous Carcinoma That Overexpresses HER2/Neu: Updated Survival Analysis

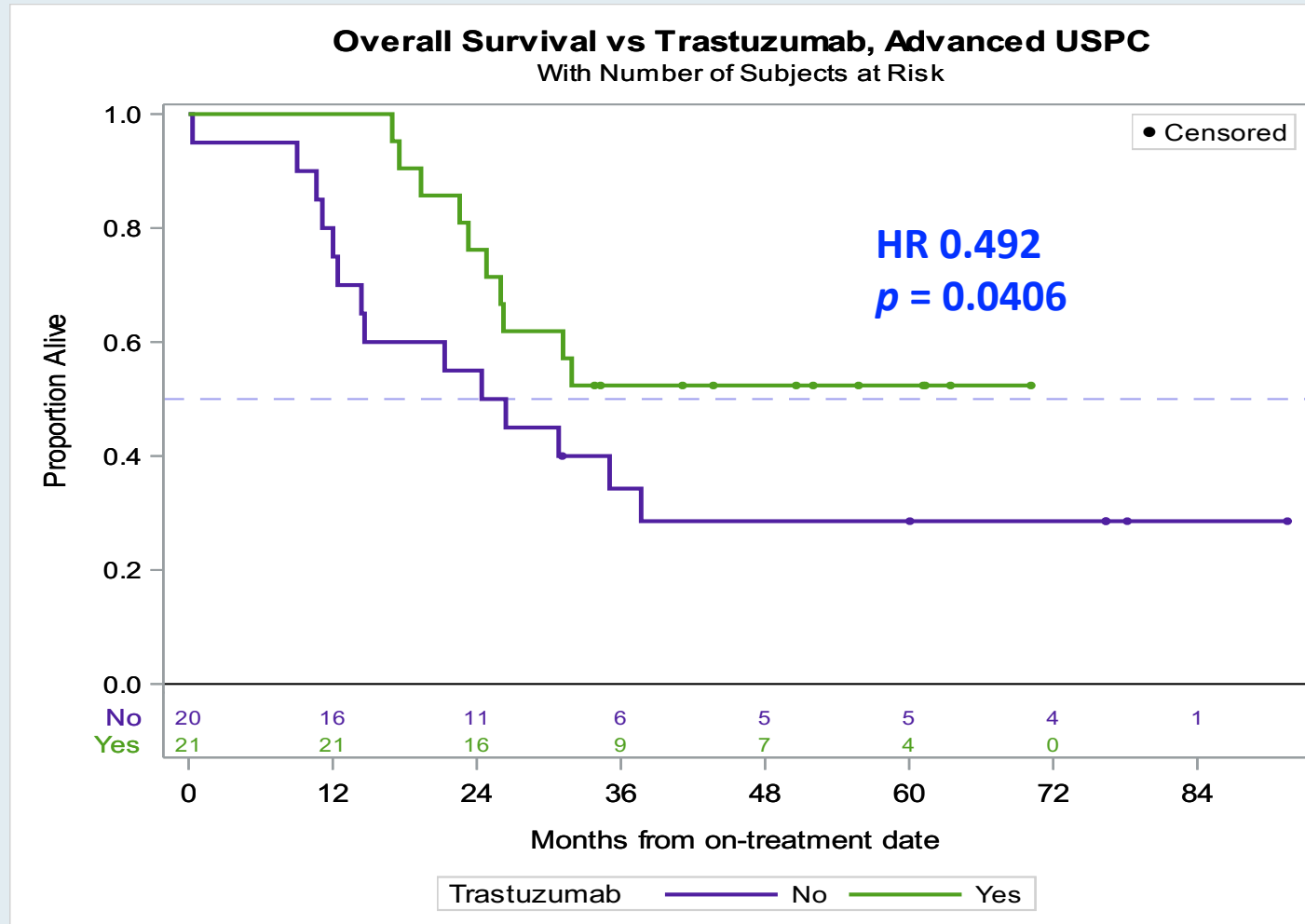
## Eligibility

- 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



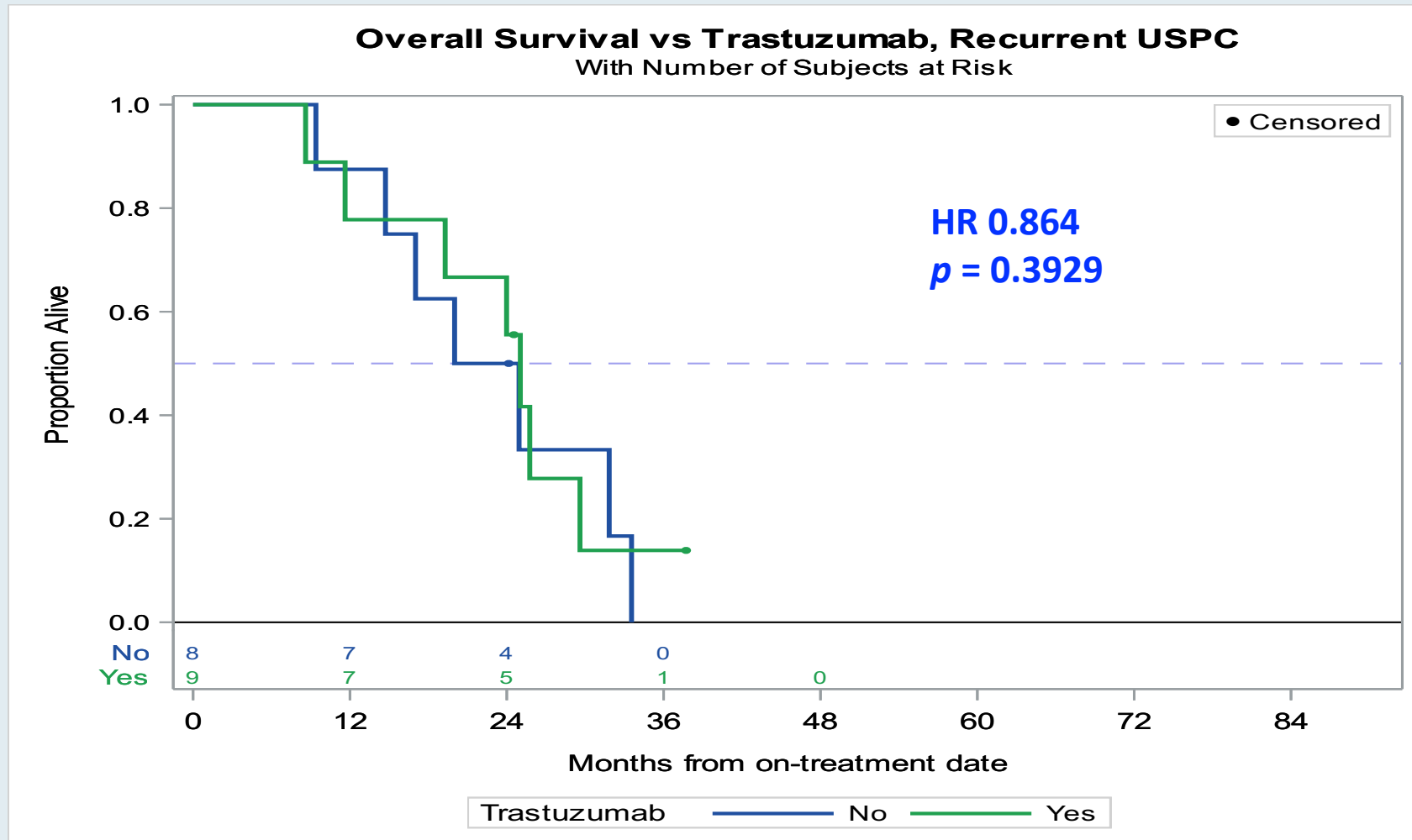
# Overall Survival with the Addition of Trastuzumab to Carboplatin/Paclitaxel for Advanced Uterine Serous Papillary Carcinoma (USPC)

- 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

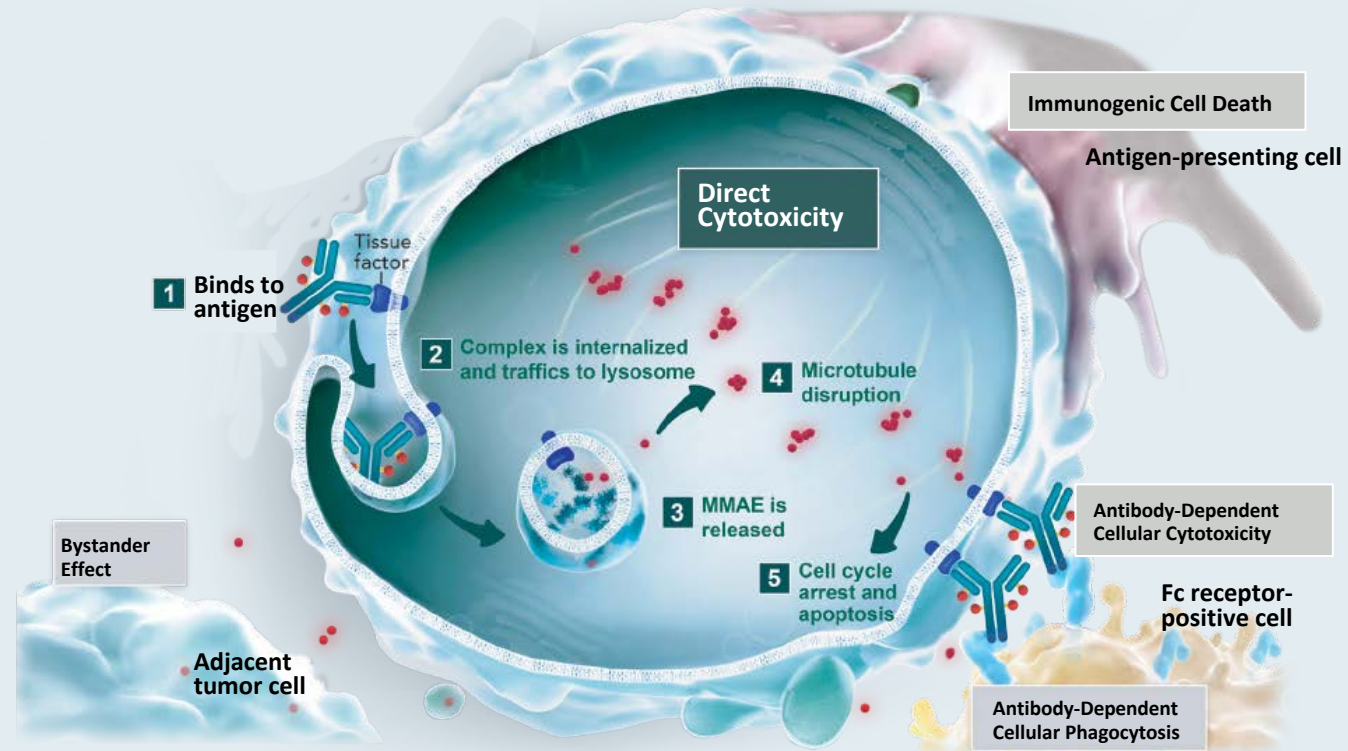
**Primary endpoint: ORR**

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

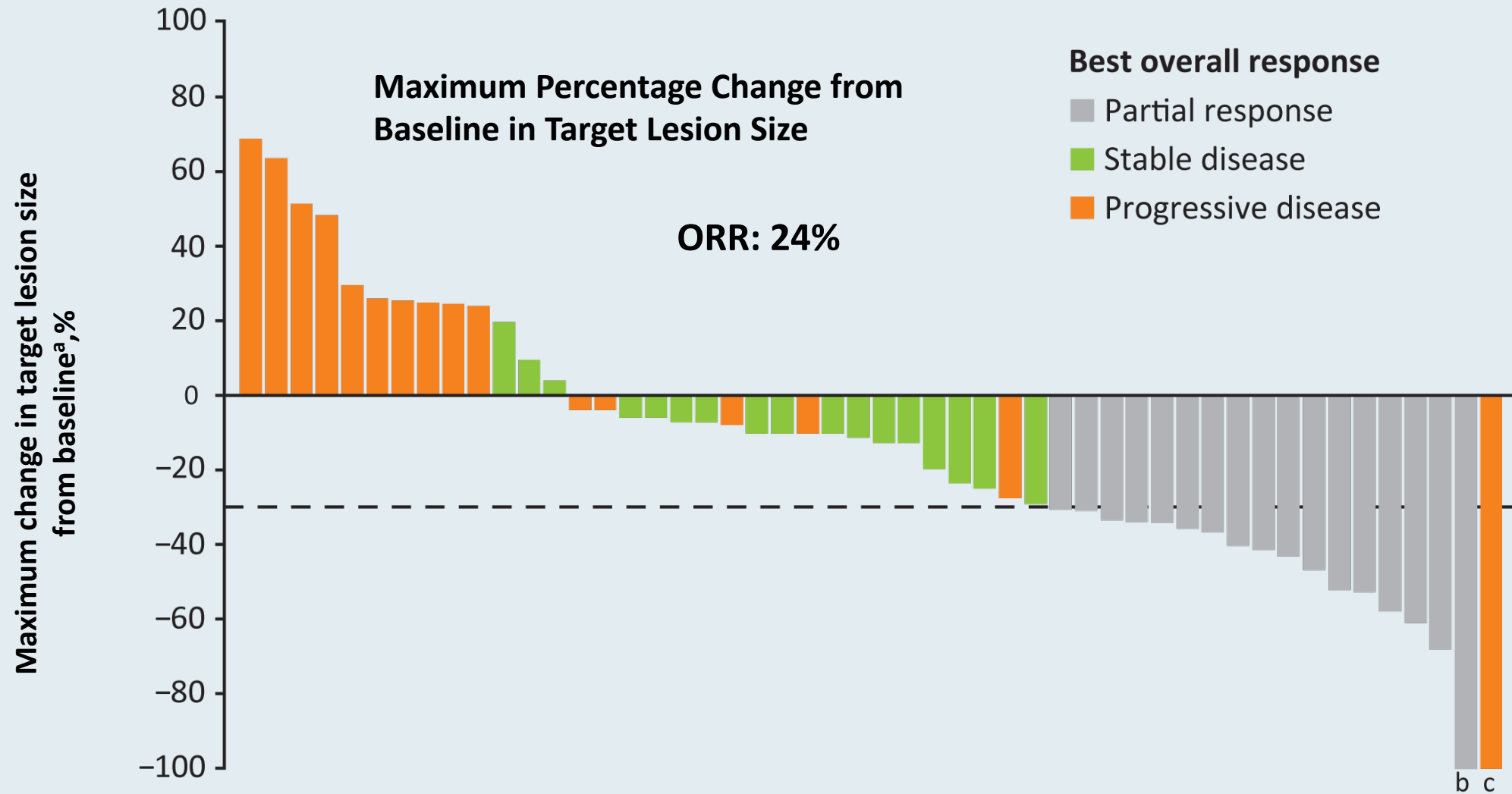
# **Tisotumab Vedotin and Other Novel Agents in Gynecologic Cancers**

# 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>

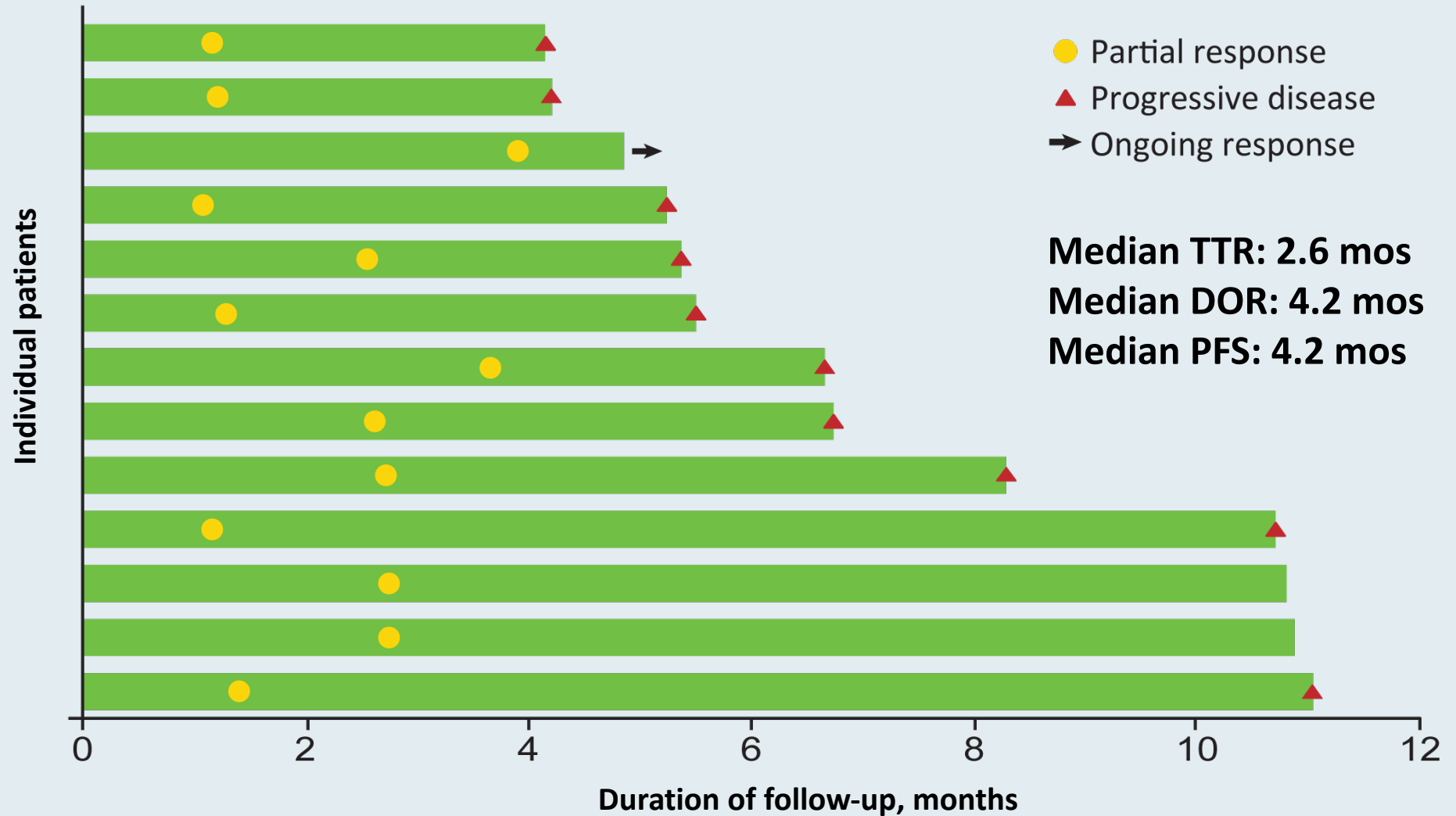


# innovaTV 201: Best Overall Response to TV



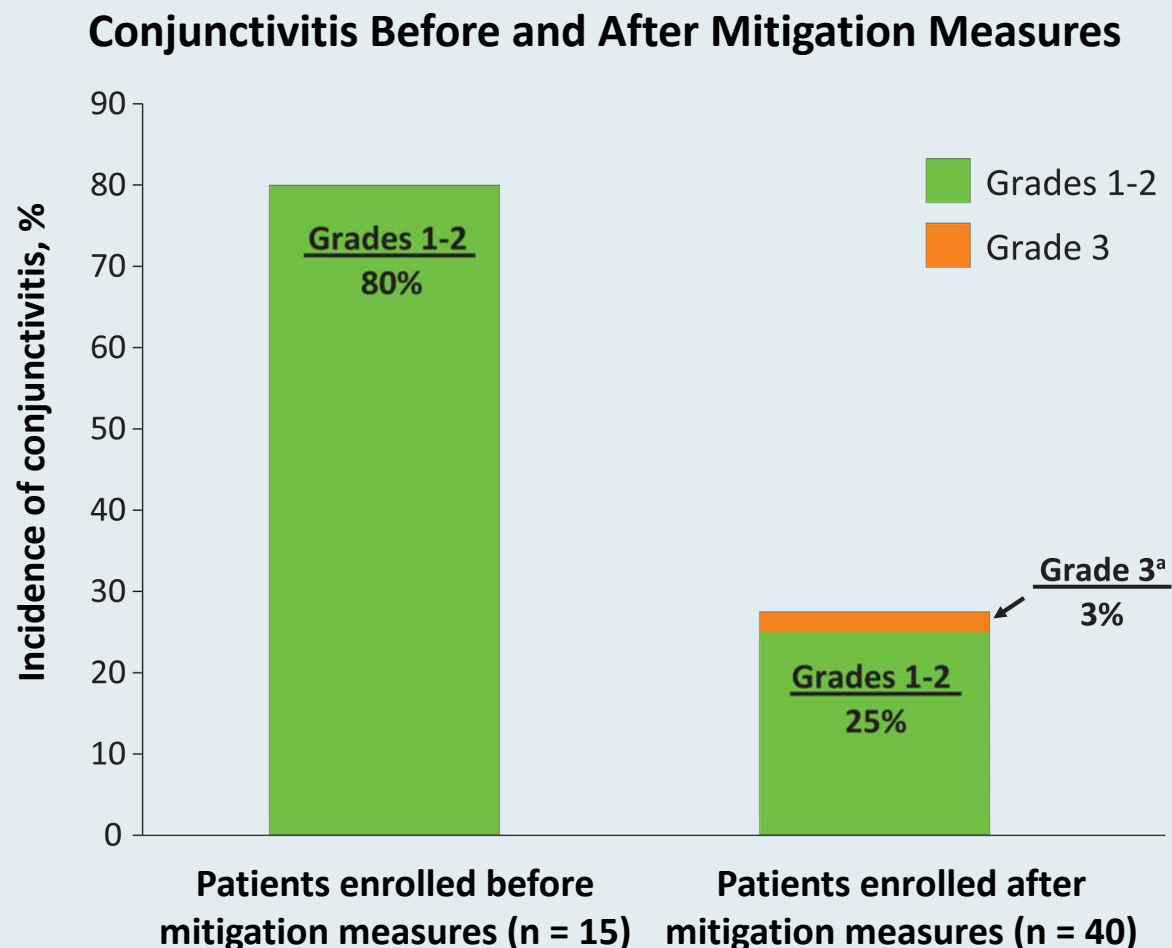


# innovaTV 201: Time to Response and Duration of Response in Patients with a Confirmed PR to TV



# 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%
<b>Conjunctivitis</b>	<b>42%</b>	<b>2%</b>
Dry eye	24%	0
Ulcerative keratitis	7%	0
Blepharitis	5%	0
Keratitis	5%	0



# **Tisotumab Vedotin in Previously Treated Recurrent or Metastatic Cervical Cancer: Results from the Phase II innovaTV 204/GOG-3023/ENGOT-cx6 Study**

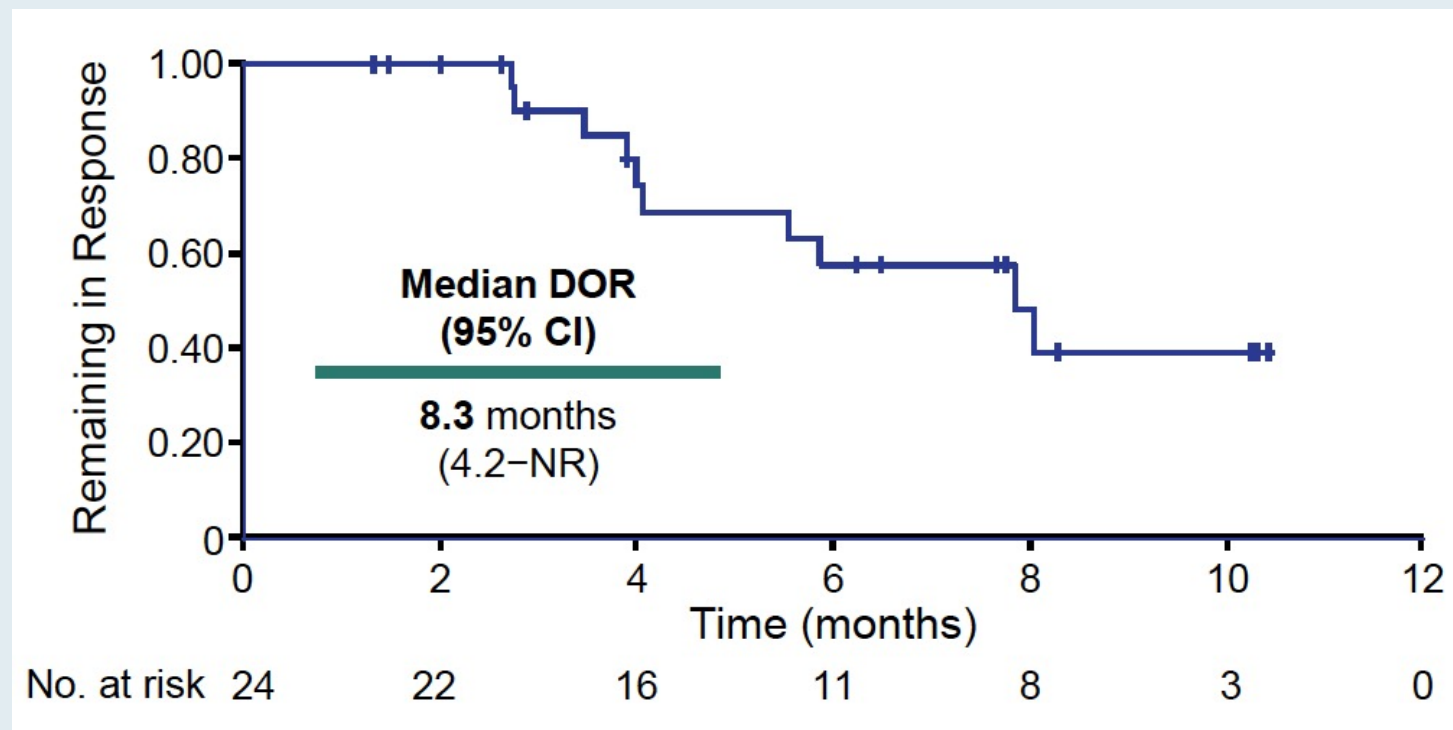
Coleman RL et al.

ESMO 2020;Abstract LBA32.

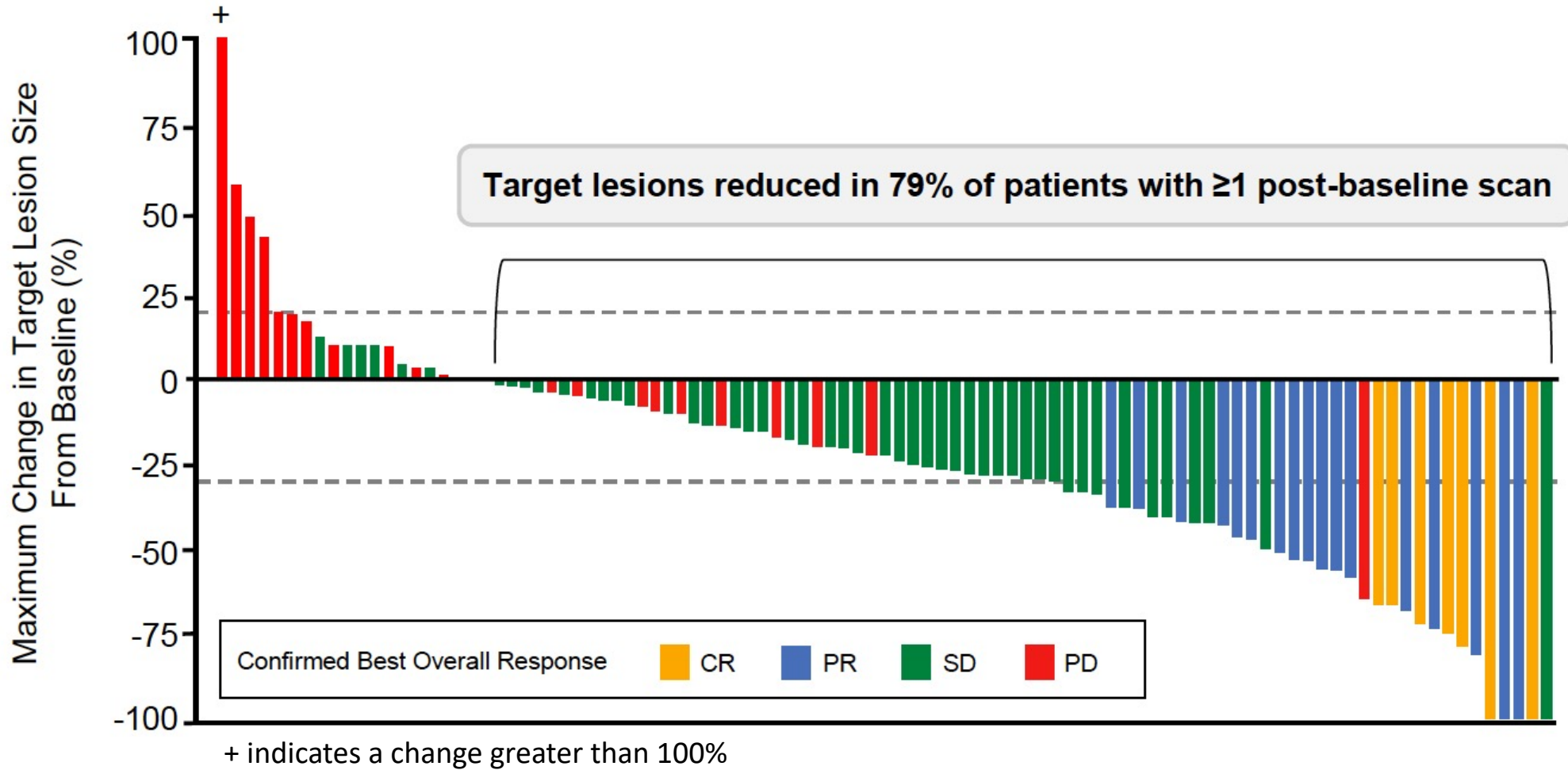
# innovaTV 204: Antitumor Activity by IRC Assessment

Clinical Variable	N = 101
Confirmed ORR	24%
CR	7%
PR	17%
SD	49%
PD	24%
Not evaluable	4%

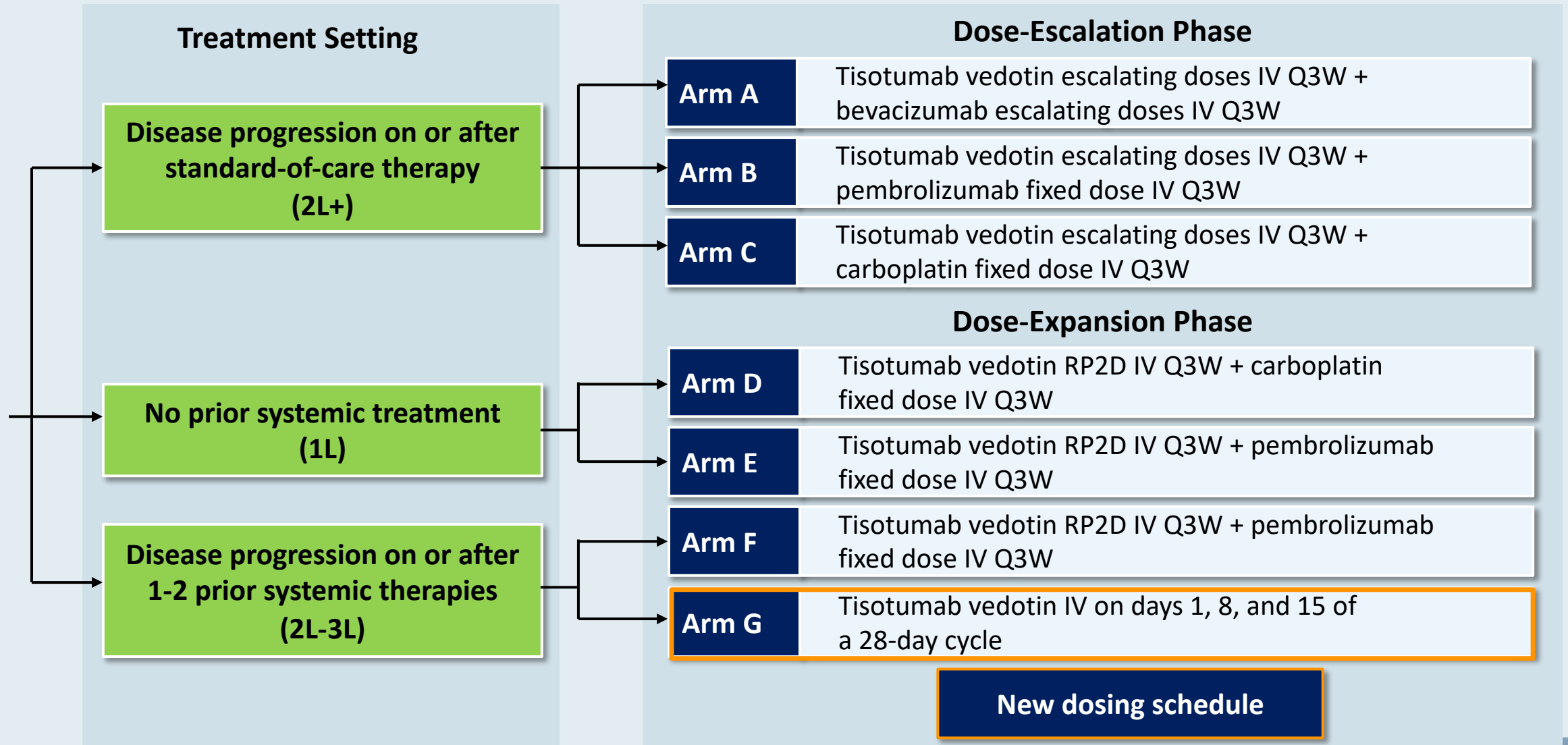
### Duration of Response



# innovaTV 204: Maximum Change in Target Lesion Size by IRC Assessment



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



# **Ask the Expert: Clinical Investigators Provide Perspectives on the Management of Renal Cell Carcinoma**

**Tuesday, April 6, 2021  
12:00 PM – 1:00 PM ET**

## **Faculty**

**Sumanta K Pal, MD**

## **Moderator**

**Neil Love, MD**

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

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