

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

A Meet The Professor Series

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

Commercial Support

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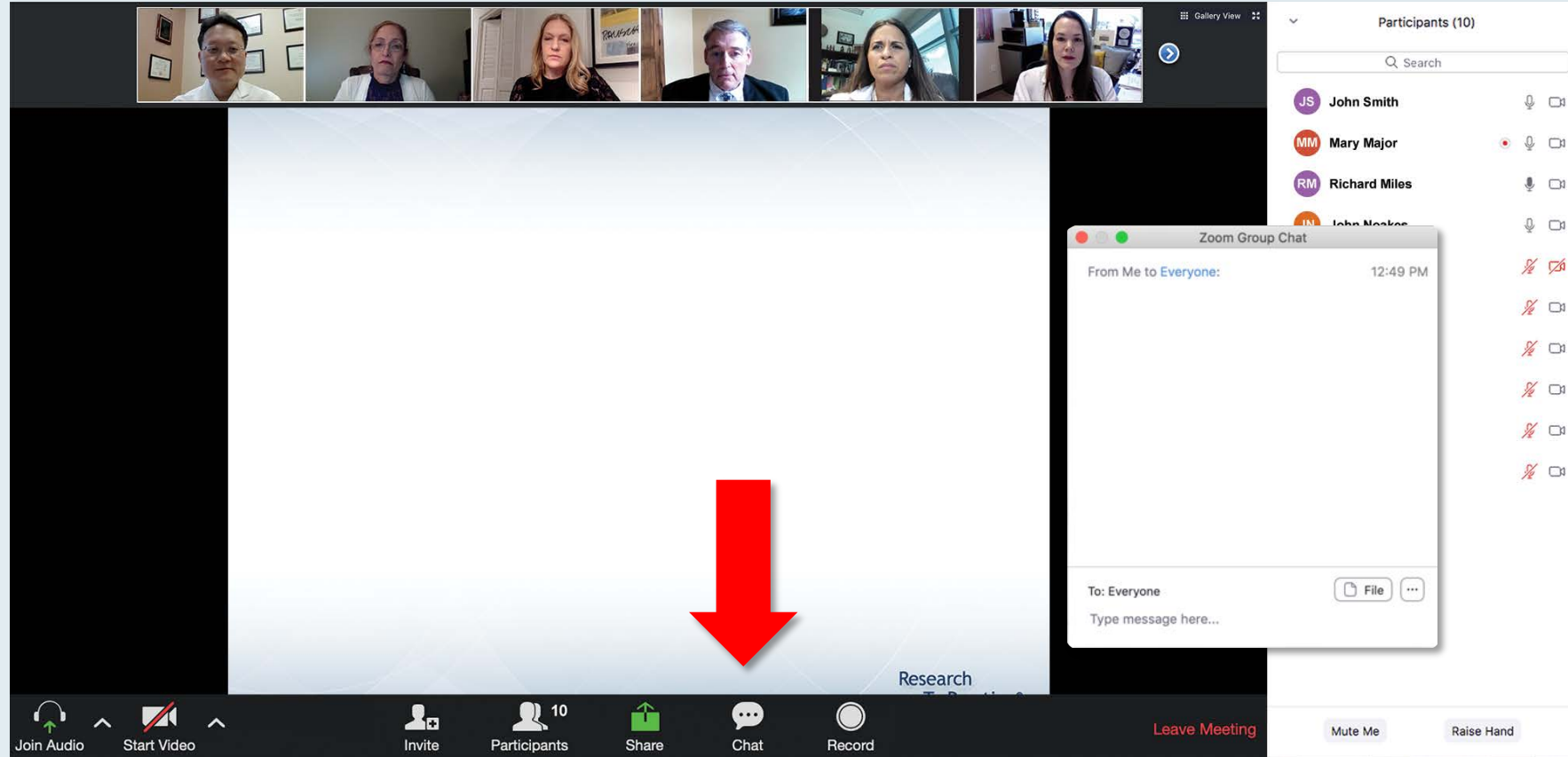
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We Encourage Clinicians in Practice to Submit Questions



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 displays a Zoom meeting interface. At the top, there are six video thumbnails of participants. The main content area shows a poll question: "What is your usual treatment recommendation for a patient with MM followed by ASCT and maintenance experiences an asymptomatic relapse?". Below the question is a list of ten options, each with a radio button for selection. A "Quick Poll" window is overlaid on the list, showing the selected option: "Carfilzomib +/- dexamethasone". The poll 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

The Zoom interface includes a bottom toolbar with 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 search and status icons for each participant.

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

Upcoming Live Webinars

**Tuesday, September 29, 2020
12:00 PM – 1:00 PM ET**

**Current Questions and
Controversies in the
Management of Lung Cancer**

Faculty

Benjamin Levy, MD

Moderator

Neil Love, MD

**Wednesday, September 30, 2020
3:00 PM – 4:00 PM ET**

**Clinical Investigator
Perspectives on the Current
and Future Management of
Multiple Myeloma**

Faculty

S Vincent Rajkumar, MD

Moderator

Neil Love, MD

Upcoming Live Webinars

**Thursday, October 1, 2020
12:00 PM – 1:00 PM ET**

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

Faculty

Ursula Matulonis, MD

Moderator

Neil Love, MD

**Friday, October 2, 2020
12:00 PM – 1:00 PM ET**

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

Faculty

William G Wierda, MD, PhD

Moderator

Neil Love, MD

Thank you for joining us!

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

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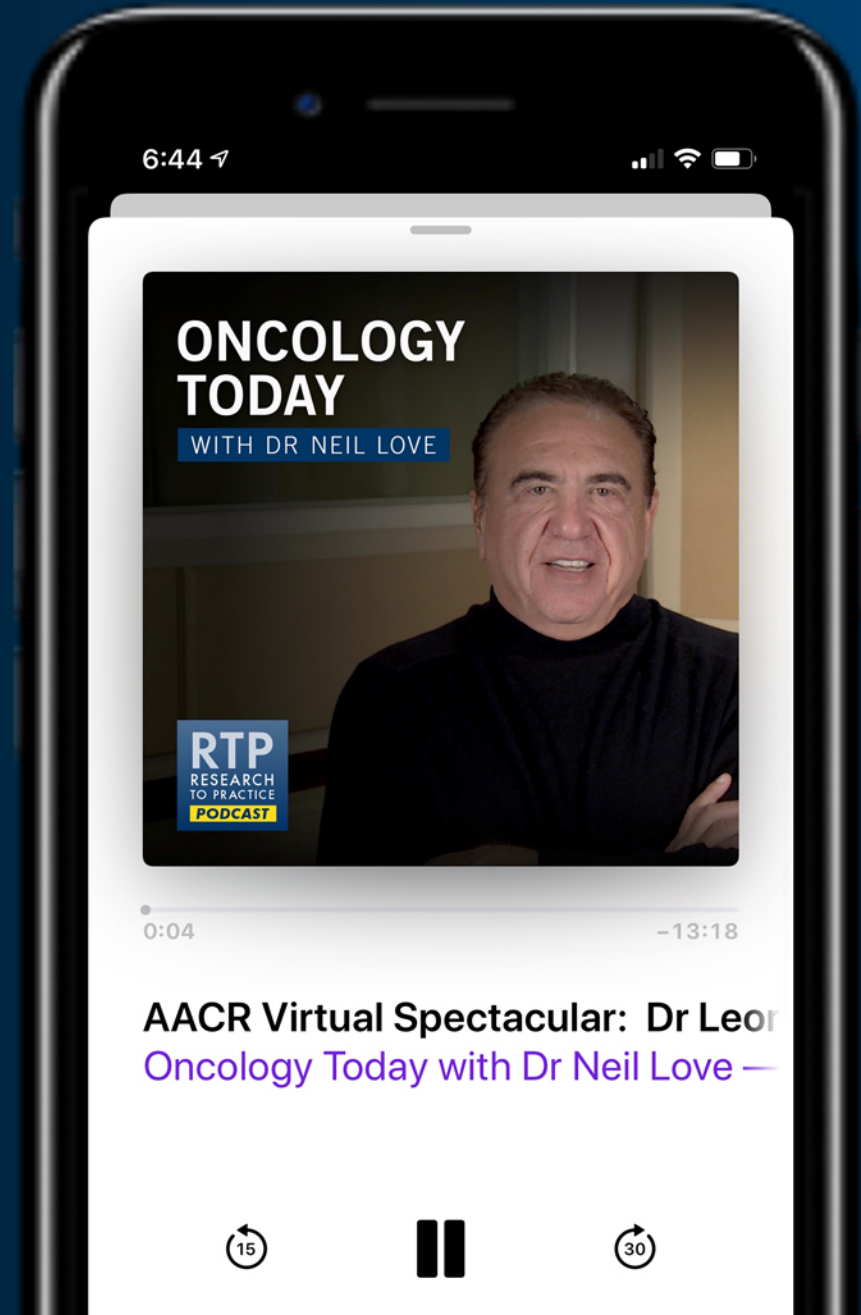
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Meet The Professor Program Participating Faculty



Michael J Birrer, MD, PhD
Vice Chancellor, UAMS
Director, Winthrop P Rockefeller Cancer Institute
Director, Cancer Service Line
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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



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Professor
Division Director, Gynecologic Oncology
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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
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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



Project Chair
Neil Love, MD
Research To Practice
Miami, Florida

We Encourage Clinicians in Practice to Submit Questions

The image shows a Zoom meeting interface. At the top, there is a gallery view of six participants. The main area displays a presentation slide with the text: "You may submit questions using the Zoom Chat option below". A large red arrow points downwards from the text. On the right side, there is a "Participants (10)" list with names and icons for 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", "Record", "Leave Meeting", "Mute Me", and "Raise Hand".

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

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The screenshot displays a Zoom meeting interface. At the top, there is a gallery view of six participants. The main content area shows 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 with a radio button for selection. A "Quick Poll" dialog box is overlaid on the list, showing the selected option: "Carfilzomib + pomalidomide +/- dexamethasone". The bottom of the screen shows the Zoom control bar with 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 who has been followed by ASCT for 1-5 years who then 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.

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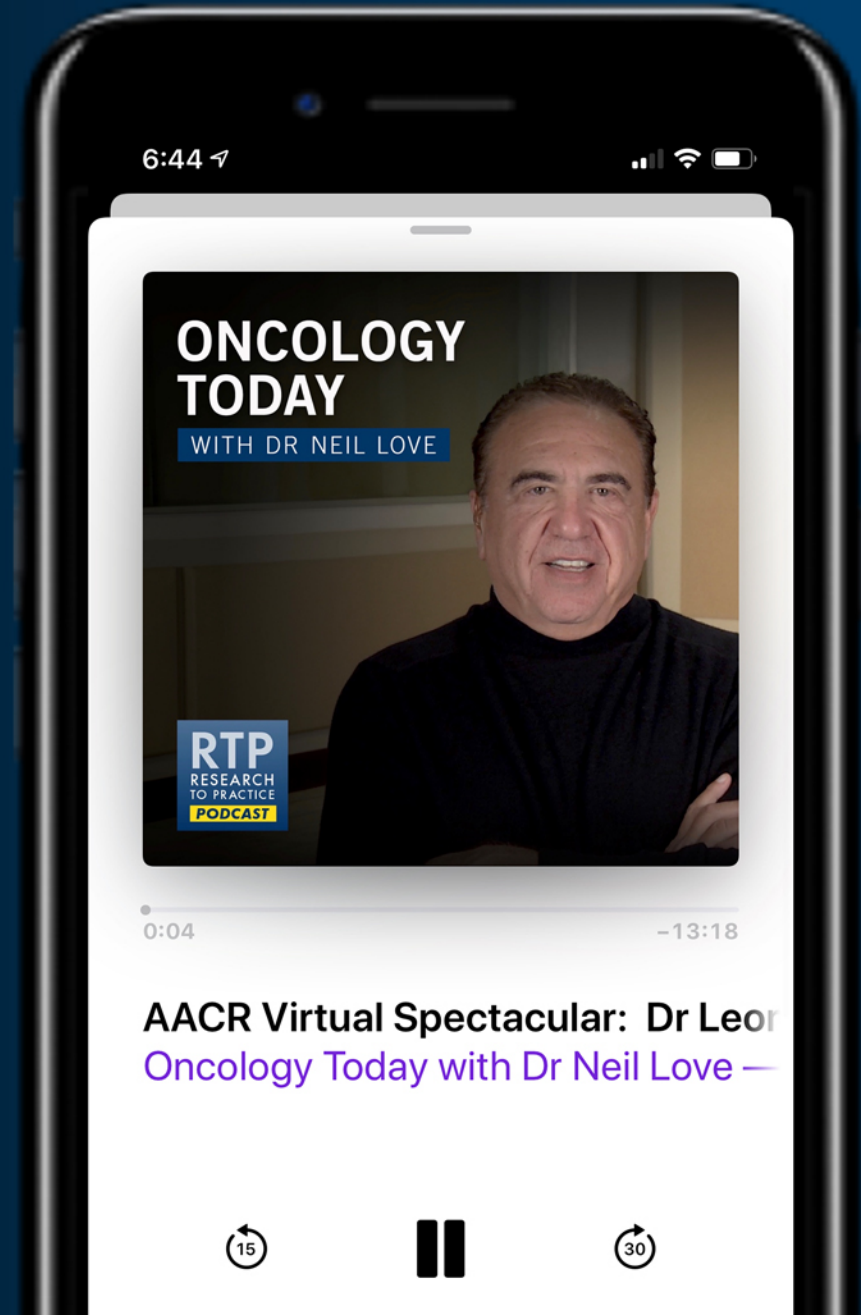
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Mansoor Raza Mirza, MD

Medical Director

Nordic Society of Gynaecological Oncology

Vice-Chairman, Danish Society of Gynaecologic Oncology

Executive Director, Gynecologic Cancer InterGroup

Chief Oncologist, Department of Oncology

Rigshospitalet, Copenhagen University Hospital

Copenhagen, Denmark

Meet The Professor with Dr O'Malley

MODULE 1: Cases from Dr Mirza

- Questions and Comments: NSGO-PALEO trial — Palbociclib/letrozole for ER-positive advanced or recurrent endometrial cancer
- Questions and Comments: Tisotumab vedotin in cervical cancer; management of ophthalmic toxicity
- A 68-year-old woman with advanced, recurrent endometrial cancer – Microsatellite instability high (MSI-H)
- A 68-year-old woman with advanced, recurrent endometrial cancer – Microsatellite stable (MSS)
- A 68-year-old woman with advanced, recurrent endometrial cancer – ER-positive, MSS
- A 65-year-old woman with advanced, recurrent endometrial cancer – MSS, hypertension with pembrolizumab/lenvatinib
- Questions and Comments: Management of pembrolizumab/lenvatinib-associated diarrhea
- A 68-year-old woman with advanced, recurrent endometrial cancer – ER-positive, MSI-H
- A 68-year-old woman with unresectable endometrial cancer and lung metastases – MSI-H
- Questions and Comments: Immune checkpoint inhibitors in platinum-resistant ovarian cancer after multiple lines of chemotherapy

MODULE 2: Gynecologic Oncology Journal Club with Dr O'Malley

MODULE 3: Beyond the Guidelines – Clinical Investigator Approaches to Common Clinical Scenarios

MODULE 4: Key Recent Data Sets

Endocrine therapy combined with a CDK4/6 inhibitor for metastatic ER-positive endometrial cancer

1. Has not been studied in a randomized trial
2. Has been studied but is not very effective
3. Has been studied and is very effective
4. I DON'T KNOW!

Questions and Comments: NSGO-PALEO/ENGOT-EN3 trial of palbociclib/letrozole for ER+ advanced or recurrent endometrial cancer (ESMO 2020)










Dr Mansoor Raza Mirza

Questions and Comments: Tisotumab vedotin in cervical cancer; management of ophthalmic toxicity



Dr Mansoor Raza Mirza

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

 <p>MICHAEL J BIRRER, MD, PHD</p>	Well tolerated except for epistasis
 <p>ROBERT L COLEMAN, MD</p>	Similar to other single-agent chemotherapy
 <p>ANA OAKNIN, MD, PHD</p>	Moderate toxicity
 <p>DAVID M O'MALLEY, MD</p>	Reasonable toxicity
 <p>RICHARD T PENSON, MD, MRCP</p>	Excited by it
 <p>MATTHEW A POWELL, MD</p>	Reasonable toxicity
 <p>BRIAN M SLOMOVITZ, MD</p>	Well tolerated; ocular side effects
 <p>KRISHNANSU S TEWARI, MD</p>	Relatively well tolerated so far
 <p>PROFESSOR IGNACE VERGOTE</p>	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 tisetumab vedotin were approved, what would likely be your next line of treatment?

1. Pembrolizumab
2. Tisetumab vedotin
3. Other

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.

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.

Case Presentation – Dr Mirza: A 68-year-old woman with advanced, recurrent endometrial cancer – MSI-H



Dr Mansoor Raza Mirza

- Diagnosed with Stage 3C endometrial cancer (serous adenocarcinoma), MSI-H, p53 mutation
- Upfront surgery, with complete resection → adjuvant carboplatin/paclitaxel x 6
- Relapsed disease 15 months later with multiple lung and abdominal metastases

Questions

- What treatment would you recommend, and why?

Case Presentation – Dr Mirza: A 68-year-old woman with advanced, recurrent endometrial cancer – MSS



Dr Mansoor Raza Mirza

- Diagnosed with Stage 3C endometrial cancer (serous adenocarcinoma), MSS, p53 mutation
- Upfront surgery, with complete resection → adjuvant carboplatin/paclitaxel x 6
- Relapsed disease 15 months later with distant metastases

Questions

- What treatment would you recommend, and why?
- If you decide to treat with pembrolizumab/lenvatinib, with what dose of lenvatinib would you start?

Case Presentation – Dr Mirza: A 68-year-old woman with advanced, recurrent endometrial cancer – ER-positive, MSS



Dr Mansoor Raza Mirza

- Diagnosed with Stage 3C endometrial cancer (serous adenocarcinoma), ER-positive, MSS, p53 mutation
- Upfront surgery, with complete resection → adjuvant carboplatin/paclitaxel x 6
- Relapsed disease 15 months later with distant metastases

Questions

- What treatment would you recommend?
 - Would you recommend endocrine treatment, and if so, what would you choose?
 - What about re-challenging with carboplatin/paclitaxel?
 - Would you recommend lenvatinib/pembrolizumab?

Case Presentation – Dr Mirza: A 65-year-old woman with advanced, recurrent endometrial cancer – MSS



Dr Mansoor Raza Mirza

- Diagnosed with Stage 3C endometrial cancer (serous adenocarcinoma), MSS
- Complete resection → adjuvant carboplatin/paclitaxel x 6
- Relapsed disease 18 months later with multiple lung metastases
- Pembrolizumab/lenvatinib
 - Grade III hypertension
 - Grade III diarrhea

Questions

- How would you manage this patient? Would you treat the hypertension and continue the same dose of lenvatinib? Would you pause the lenvatinib and re-start at a lower dose? Or would you discontinue lenvatinib and continue with pembrolizumab?

Questions and Comments: Management of pembrolizumab/lenvatinib-associated diarrhea



Dr Mansoor Raza Mirza

Case Presentation – Dr Mirza: A 68-year-old woman with unresectable endometrial cancer and lung metastases – MSI-H



Dr Mansoor Raza Mirza

- Diagnosed with unresectable endometrial cancer (serous adenocarcinoma) and lung metastases
 - MSI-H

Questions

- Regulatory and reimbursement issues aside, what treatment would you recommend?
 - Would you recommend chemotherapy or immunotherapy?
- What would you recommend if the patient's disease was MSS?

Questions and Comments: Use of immune checkpoint inhibitors for platinum-resistant ovarian cancer after multiple lines of chemotherapy



Dr Mansoor Raza Mirza

Meet The Professor with Dr O'Malley

MODULE 1: Cases from Dr Mirza

MODULE 2: Gynecologic Oncology Journal Club with Dr O'Malley

- COVID-19 and ovarian cancer: Exploring alternatives to IV therapies
- Carboplatin/paclitaxel/trastuzumab in recurrent uterine serous carcinoma
- Antibody-drug conjugates for the treatment of ovarian cancer (OC)
- innovaTV 205 trial in progress: Tisotumab vedotin +/- bevacizumab, pembrolizumab or carboplatin for cervical cancer
- MOONSTONE: Niraparib + dostarlimab for platinum-resistant OC
- MEDIOLA: Olaparib + durvalumab and bevacizumab for platinum-sensitive relapsed OC without germline BRCA mutation
- GARNET: Dostarlimab for advanced or recurrent mismatch repair deficient or proficient endometrial cancer

MODULE 3: Beyond the Guidelines – Clinical Investigator Approaches to Common Clinical Scenarios

MODULE 4: Key Recent Data Sets

Randomized Phase II Trial of Carboplatin–Paclitaxel Compared with Carboplatin–Paclitaxel–Trastuzumab in Advanced (Stage III–IV) or Recurrent Uterine Serous Carcinomas that Overexpress Her2/Neu (NCT01367002): Updated Overall Survival Analysis



Amanda N. Fader¹, Dana M. Roque², Eric Siegel³, Natalia Buza⁴, Pei Hui⁴, Osama Abdelghany⁴, Setsuko Chambers⁵, Angeles Alvarez Secord⁶, Laura Havrilesky⁶, David M. O'Malley⁷, Floor J. Backes⁷, Nicole Nevadunsky⁸, Babak Edraki⁹, Dirk Pikaart¹⁰, William Lowery¹¹, Karim ElSahwi¹², Paul Celano¹³, Stefania Bellone⁴, Masoud Azodi⁴, Babak Litkouhi¹⁴, Elena Ratner⁴, Dan-Arin Silasi⁴, Peter E. Schwartz⁴, and Alessandro D. Santin⁴

Clin Cancer Res 2020;26:3928–35

MOONSTONE/GOG-3032: A Phase II, Open-Label, Single-Arm Study to Evaluate the Efficacy and Safety of Niraparib + Dostarlimab in Patients with Platinum-Resistant Ovarian Cancer

Randall LM et al.

ESMO 2020;Abstract 883TiP.

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.

Safety and Antitumor Activity of Dostarlimab in Patients (pts) with Advanced or Recurrent DNA Mismatch Repair Deficient (dMMR) or Proficient (MMRp) Endometrial Cancer (EC): Results from GARNET

Oaknin A et al.

ESMO 2020;Abstract LBA36.

GARNET: Primary Endpoint Analysis

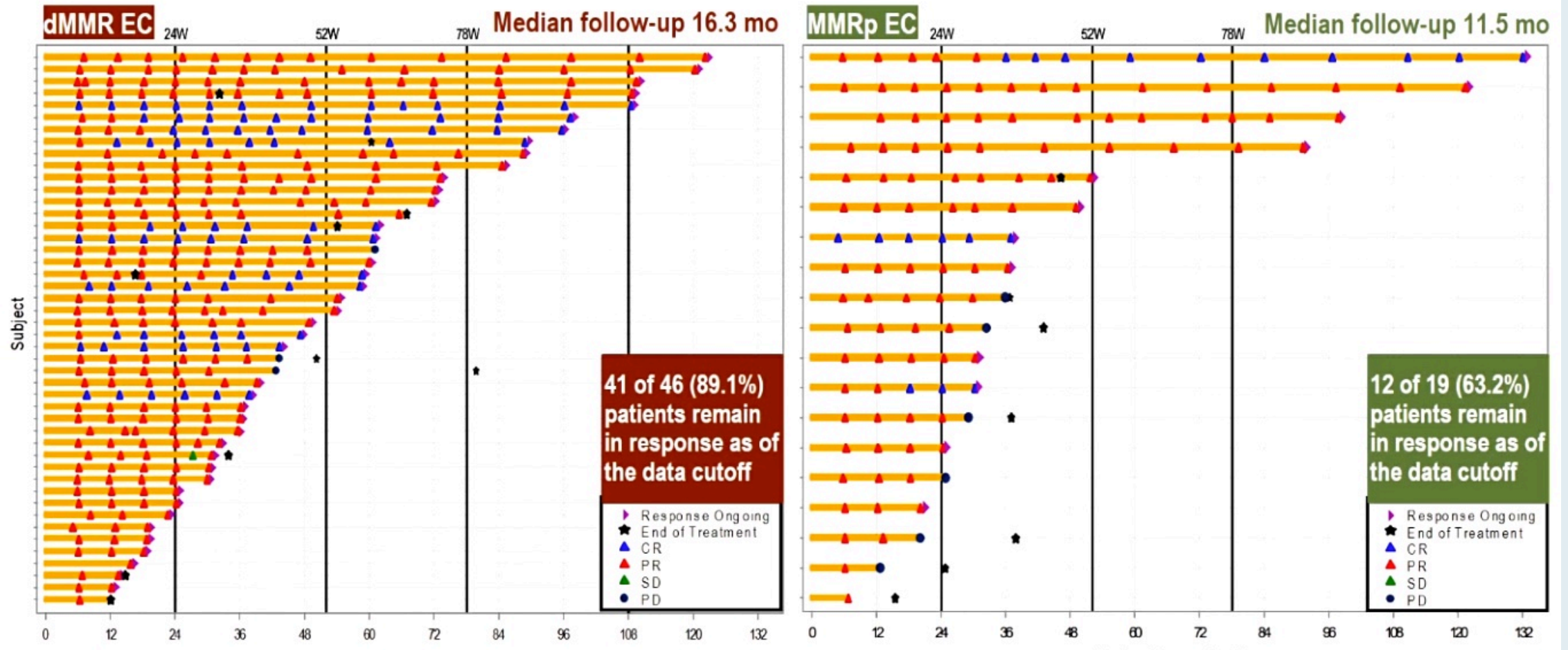
ORR was 44.7% in patients with dMMR EC, and 13.4% in patients with MMRp EC

Variable	dMMR EC, n=103	MMRp EC, n=142
Median follow-up time, mo	16.3	11.5
Objective response rate*, n (%), 95% CI)	46 (44.7%, 34.9–54.8)	19 (13.4%, 8.3–20.1)
Complete response, n (%)	11 (10.7)	3 (2.1)
Partial response, n (%)	35 (34.0)	16 (11.3)
Stable disease, n (%)	13 (12.6)	31 (21.8)
Progressive disease, n (%)	39 (37.9)	77 (54.2)
Not evaluable, n (%)	3 (2.9)	0
Not done, n (%)	2 (1.9)	15 (10.6)
Disease control rate†, n (%), 95% CI)	59 (57.3%, 47.2–67.0)	50 (35.2%, 27.4–43.7)
Response ongoing, n (%)	41 (89.1)	12 (63.2)
Median duration of response, (range) mo	Not reached (2.63–28.09+)	Not reached (1.54+–30.36+)
Kaplan–Meier estimated probability of remaining in response		
at 6 mo, %	97.8	83.0
at 12 mo, %	90.6	61.3
at 18 mo, %	79.2	61.3

*Responses required confirmation at a subsequent scan; SD had to be observed at ≥ 12 weeks on study to qualify as SD; †Includes confirmed CR, PR or SD at ≥ 12 weeks.

GARNET: Duration of Response

Measured from first observed response (PR or CR), this response is not shown on the figure



Duration of Response

Duration of Response

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MODULE 1: Cases from Dr Mirza

MODULE 2: Gynecologic Oncology Journal Club with Dr O'Malley

MODULE 3: Beyond the Guidelines – Clinical Investigator Approaches to Common Clinical Scenarios

MODULE 4: Key Recent Data Sets

- Pembrolizumab (KEYNOTE-158 trial) or dostarlimab (GARNET trial) for MSI-H or dMMR endometrial cancer (EC)
- KEYNOTE-146 trial: 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 the JAVELIN Ovarian 200, TOPACIO and 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 trial 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?

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

Meet The Professor with Dr O'Malley

MODULE 1: Cases from Dr Mirza

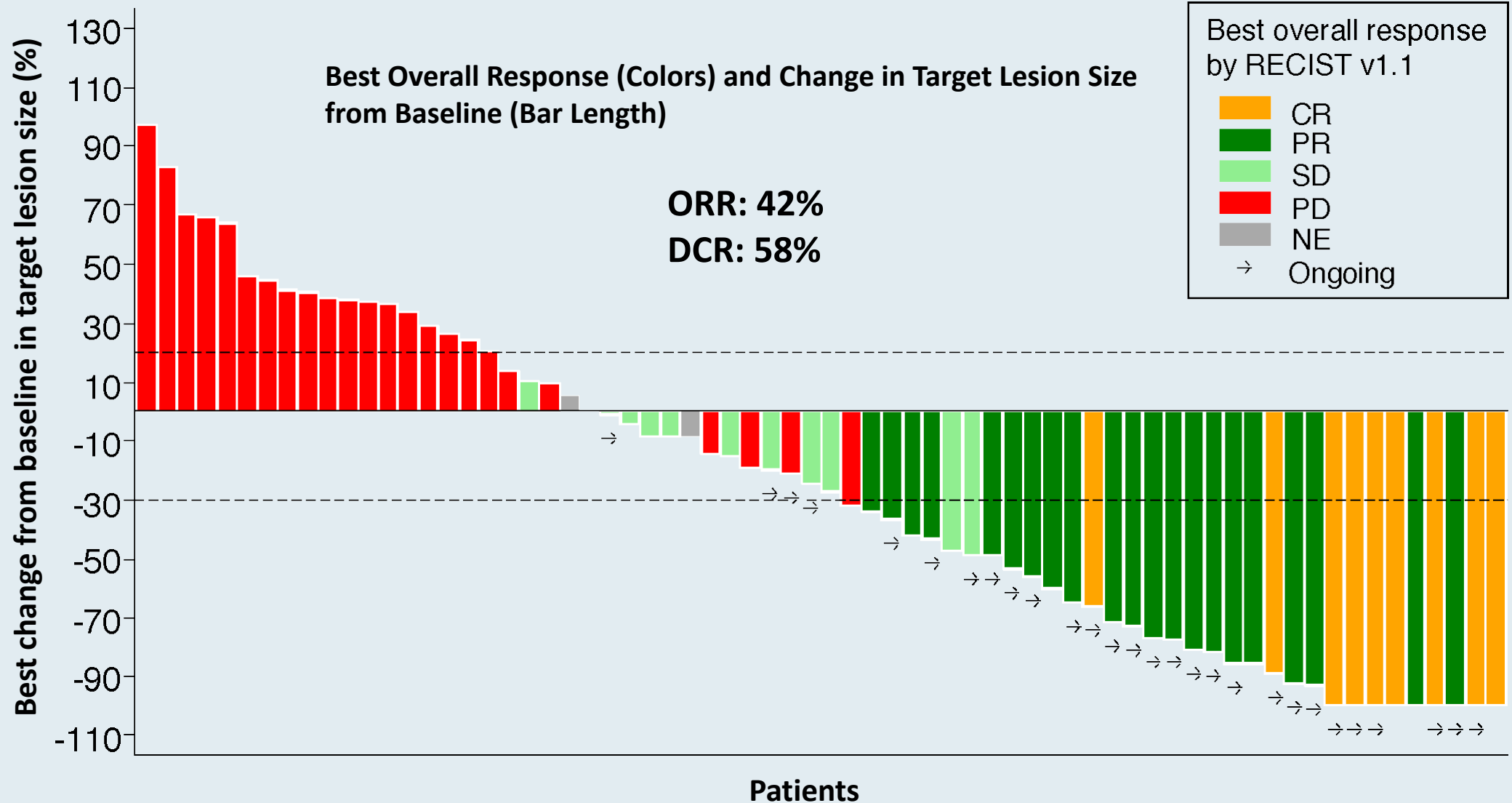
MODULE 2: Gynecologic Oncology Journal Club with Dr O'Malley

MODULE 3: Beyond the Guidelines – Clinical Investigator Approaches to Common Clinical Scenarios

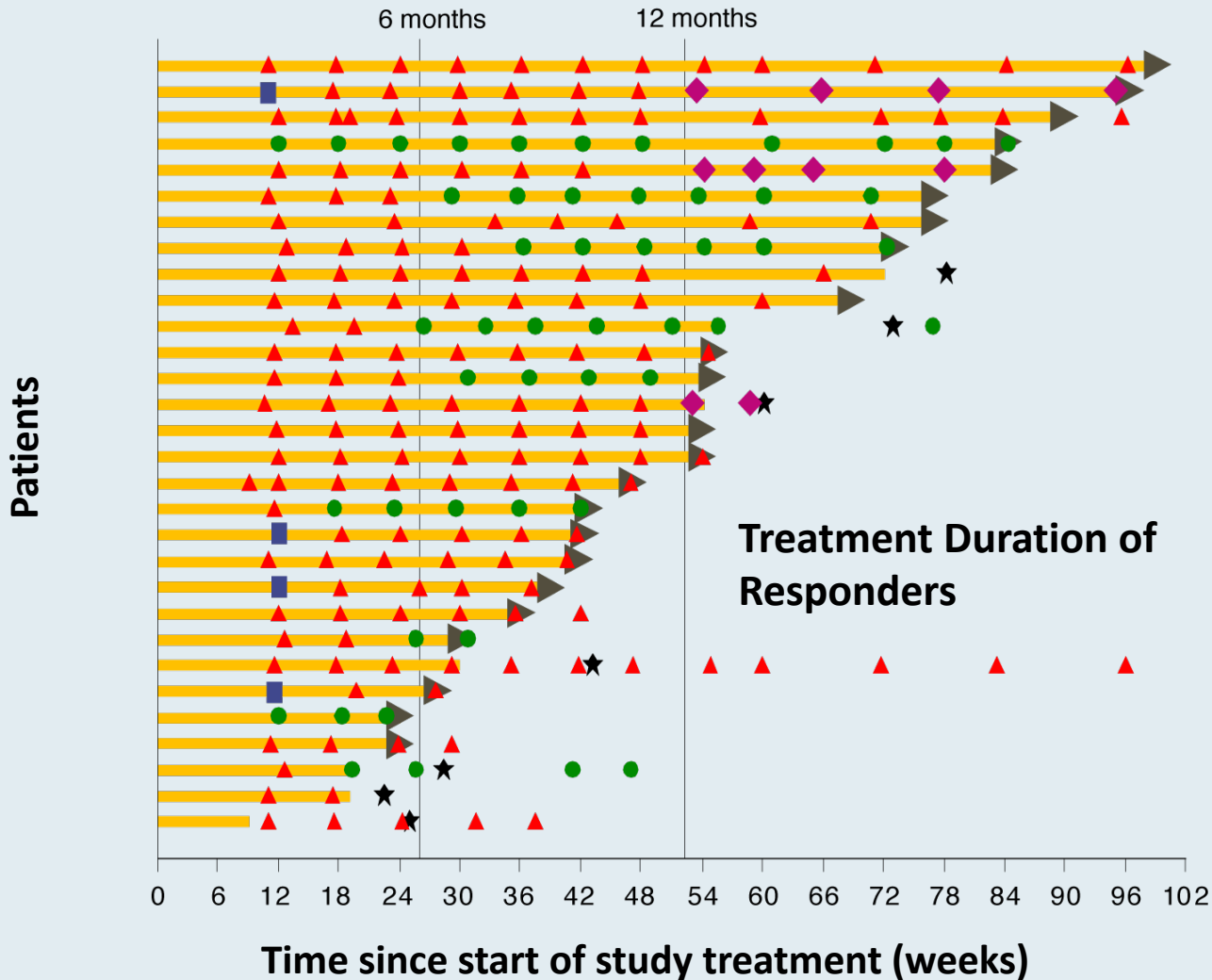
MODULE 4: Key Recent Data Sets

- Pembrolizumab (KEYNOTE-158 trial) or dostarlimab (GARNET trial) for MSI-H or dMMR endometrial cancer (EC)
- KEYNOTE-146 trial: 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 the JAVELIN Ovarian 200, TOPACIO and 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 trial data with tisotumab vedotin; ongoing innovaTV 205 study

GARNET: Dostarlimab in Recurrent or Advanced dMMR Endometrial Cancer



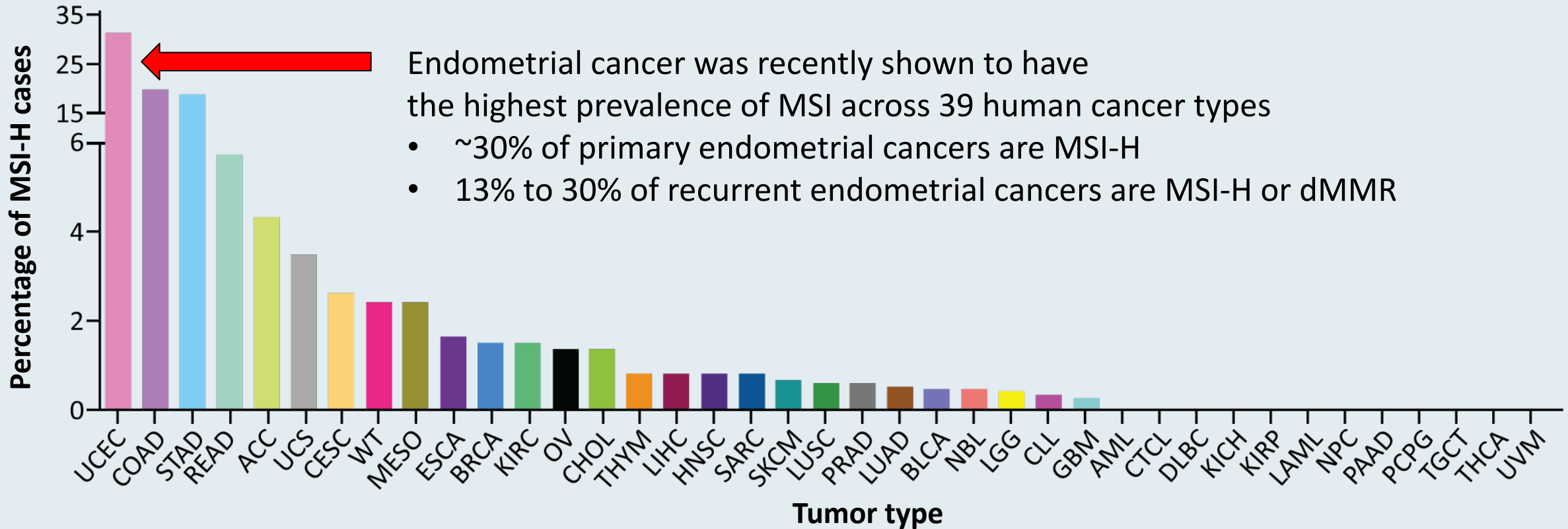
GARNET: Dostarlimab in Recurrent or Advanced dMMR Endometrial Cancer



- 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

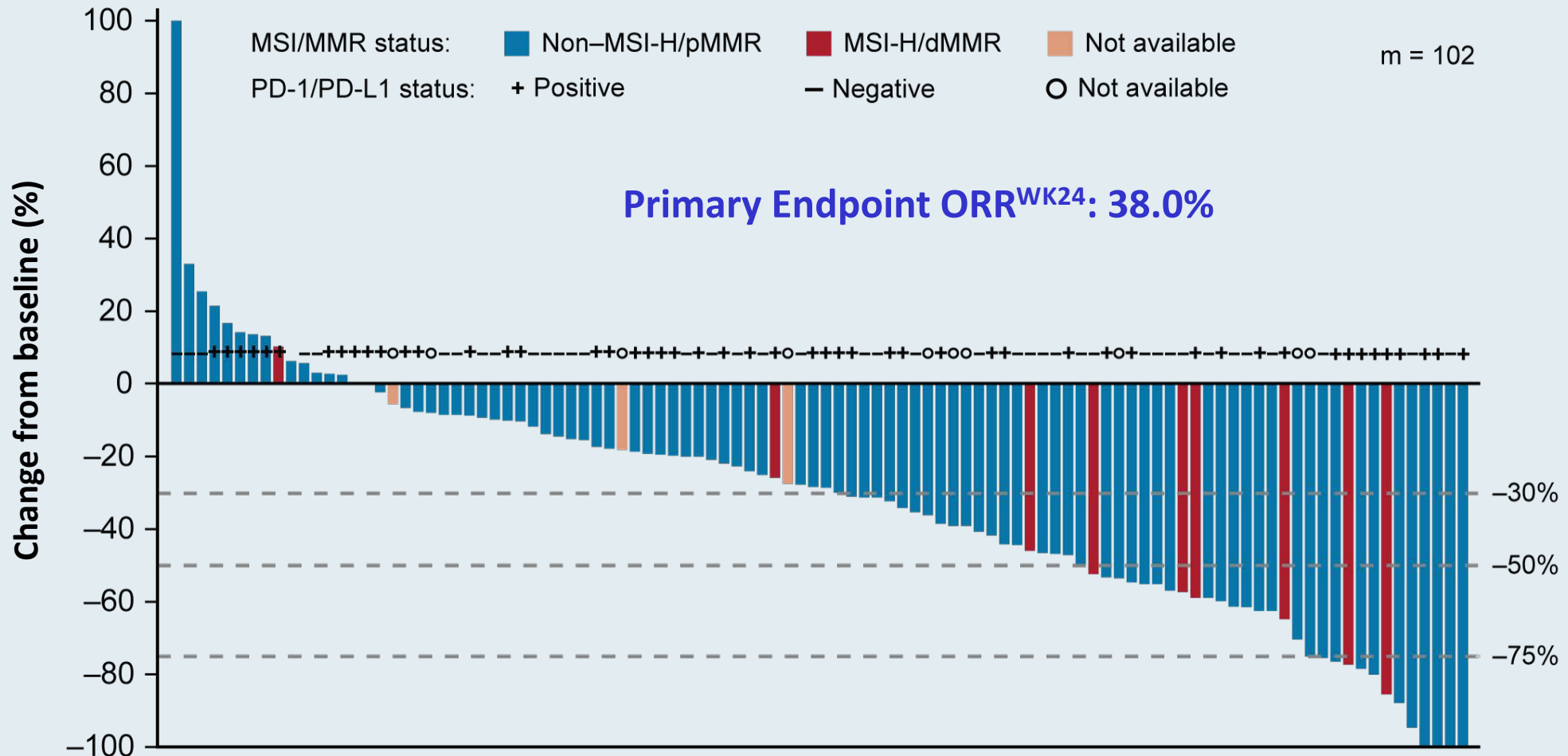
MSI-High Across 39 Cancer Types

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

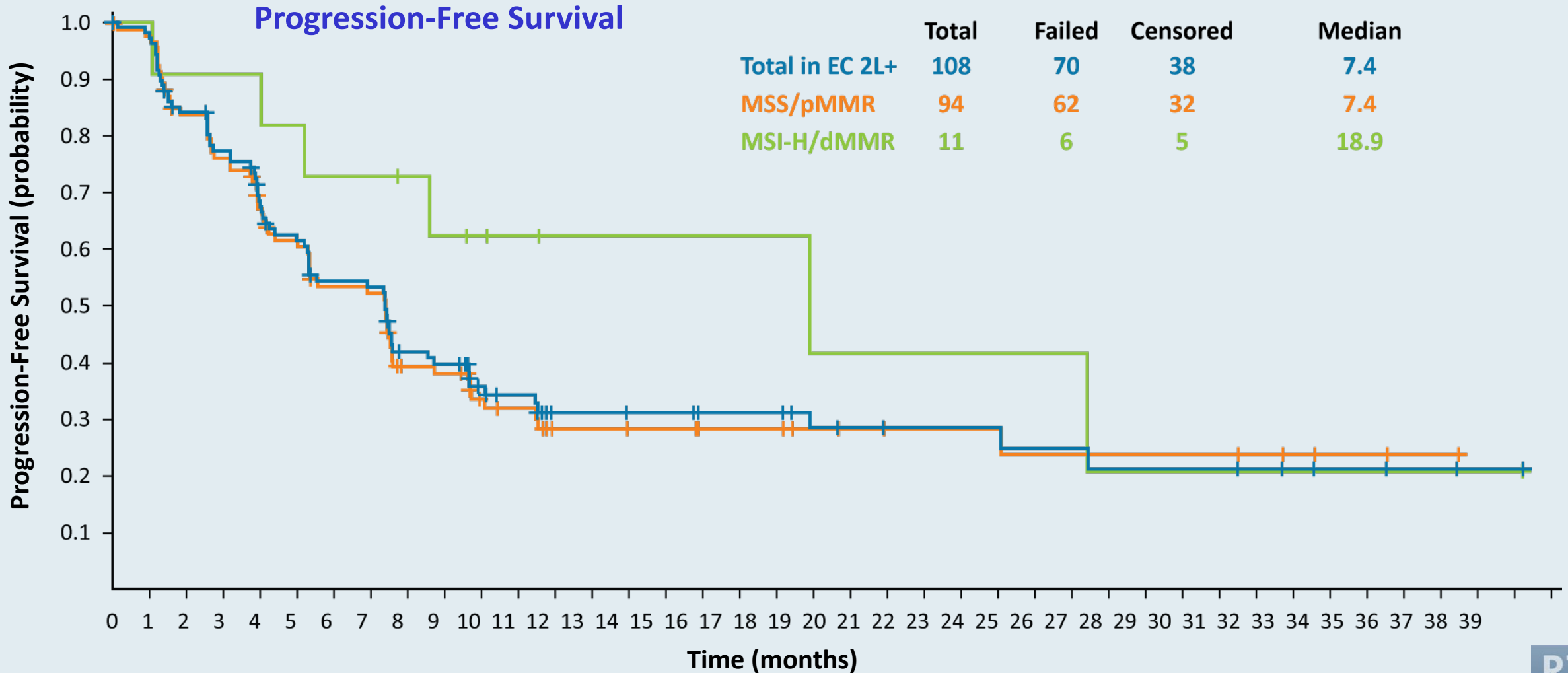


UCEC = uterine corpus endometrial carcinoma

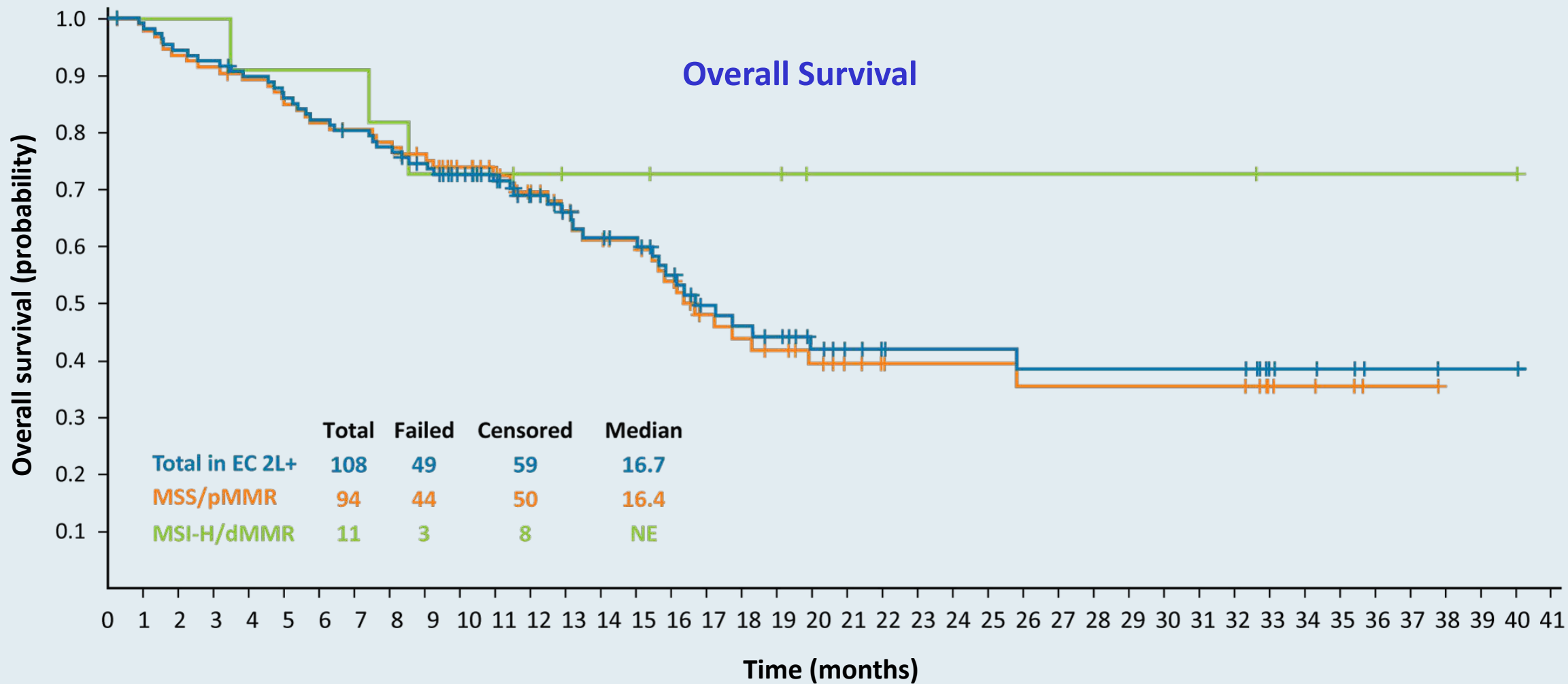
KEYNOTE-146: Pembrolizumab/Lenvatinib in Advanced Endometrial Cancer That Is Not MSI-H or dMMR After Disease Progression on Prior Systemic Therapy



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

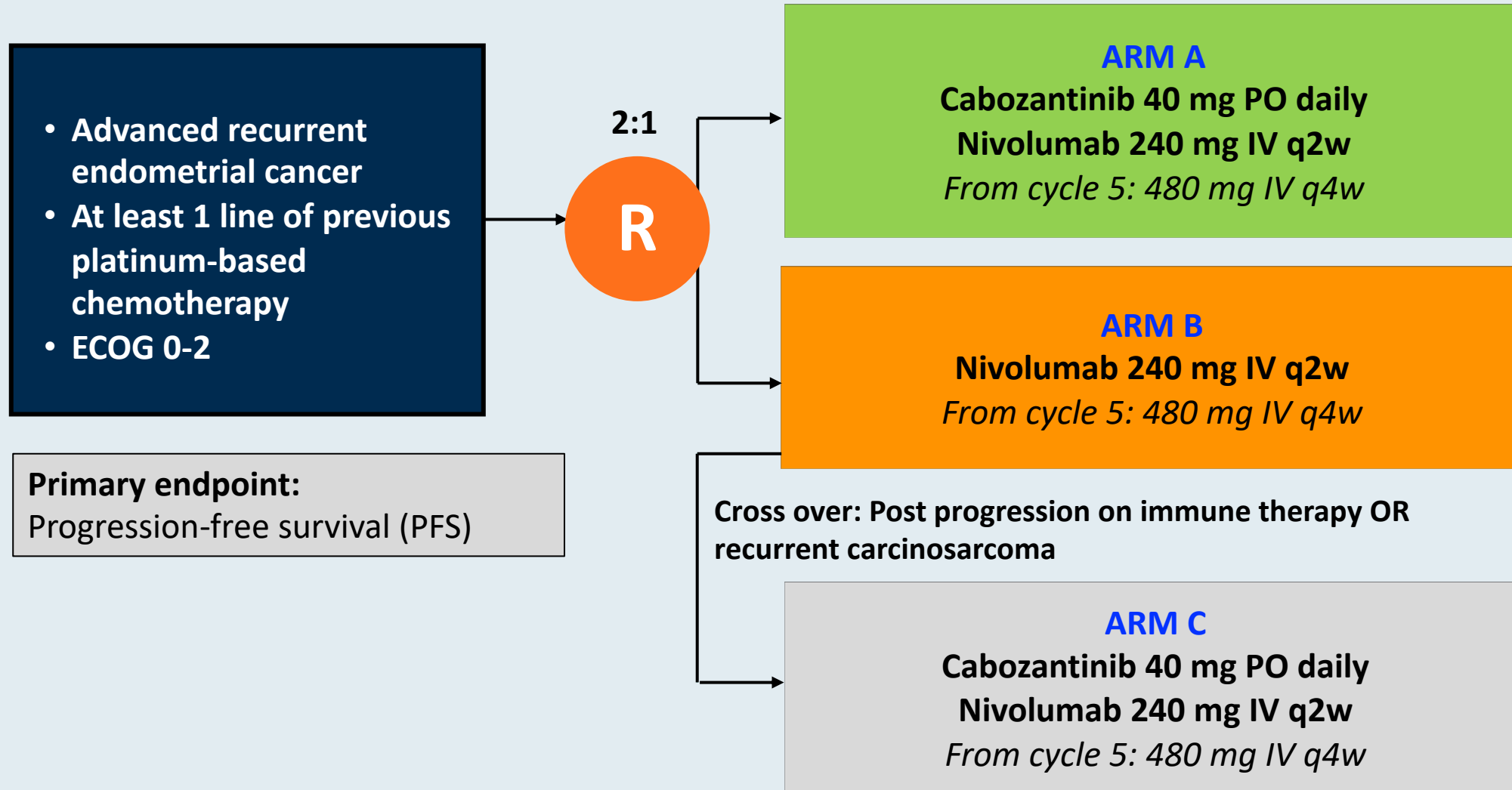


NCI 10104: A Randomized Phase 2 Study of Cabozantinib in Combination with Nivolumab in Advanced, Recurrent Metastatic Endometrial Cancer

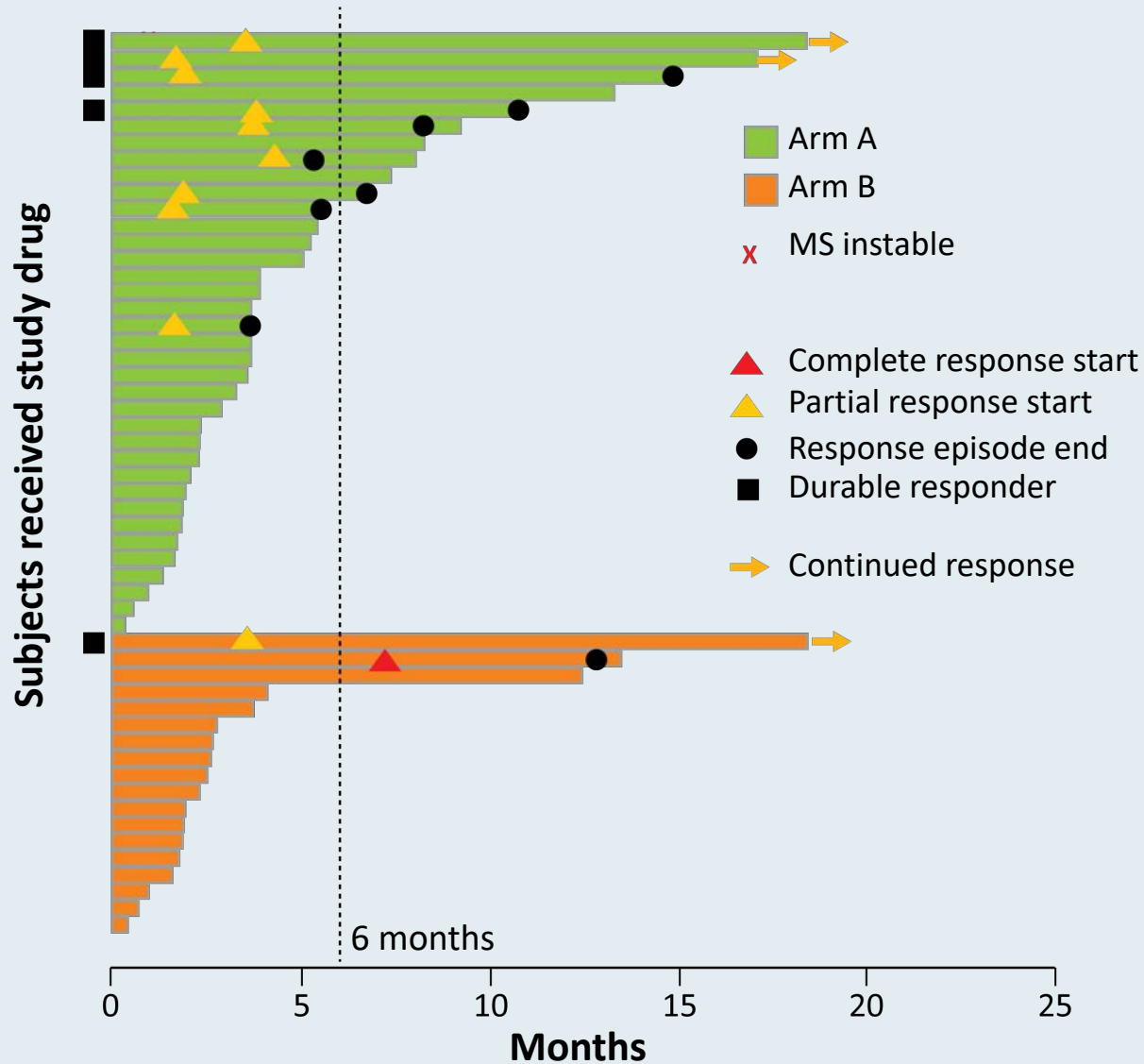
Lheureux S et al.

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 [†]	13.0 mo	7.9 mo

* HR: 0.59, significant

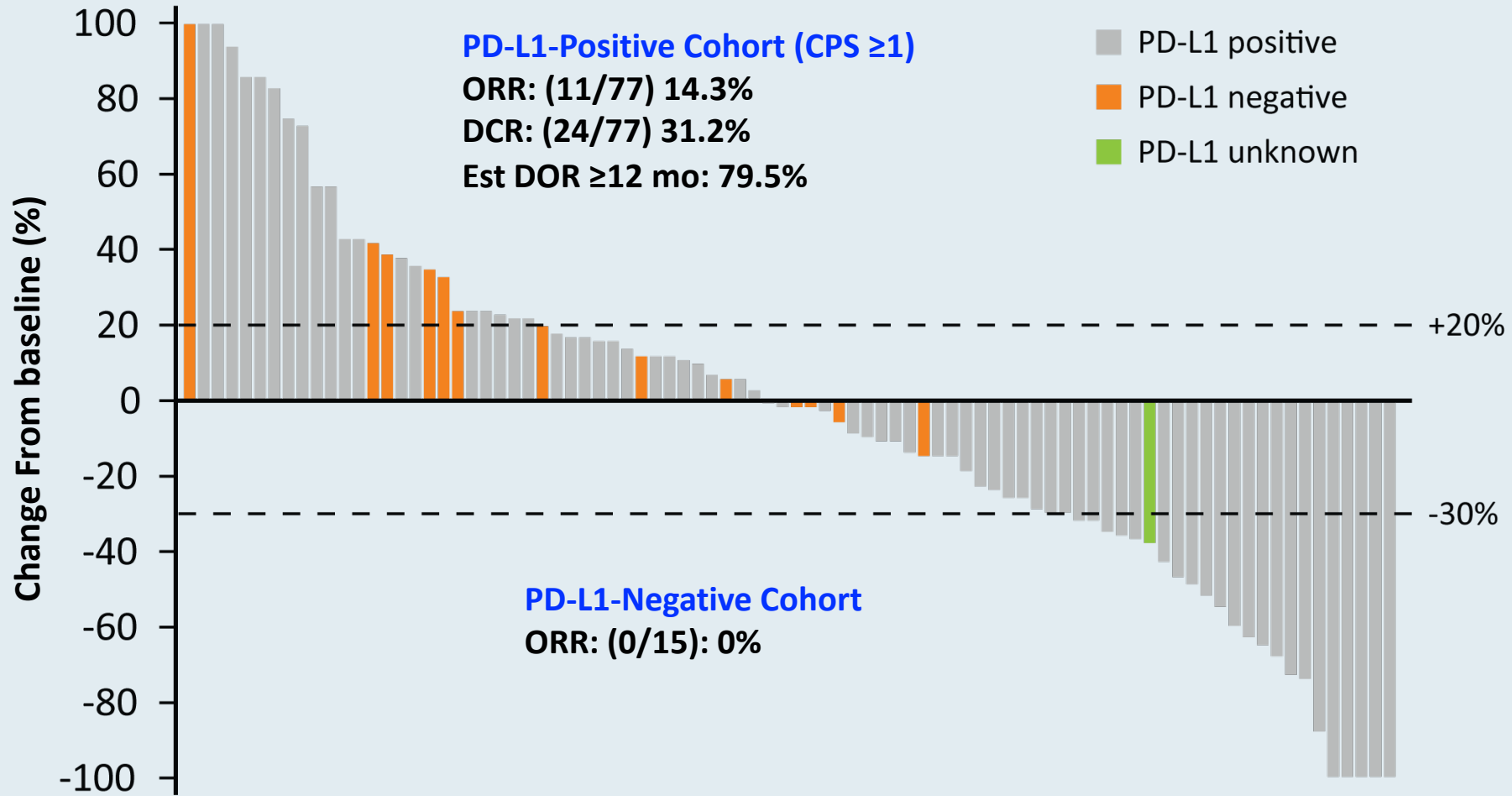
[†] Immature, 55% events

Select Ongoing Phase III Immune Checkpoint Inhibitor Combination Studies

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

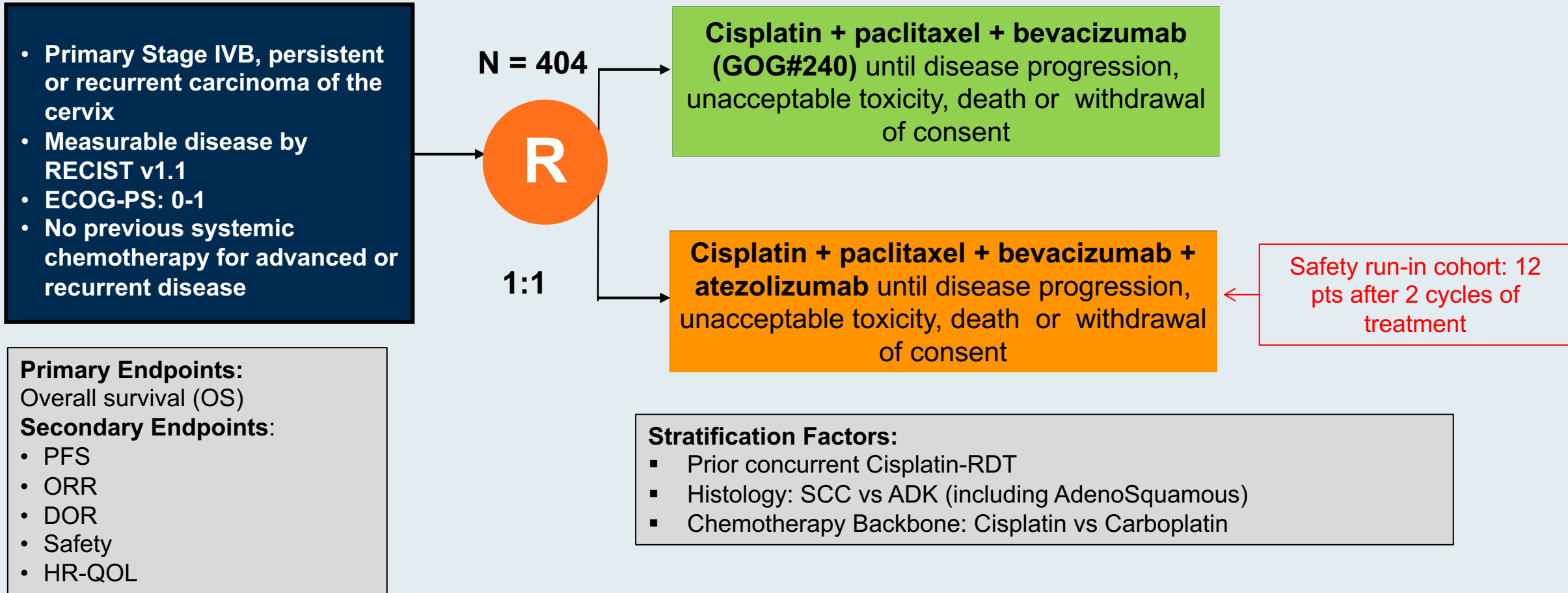
Anti-PD-1/PD-L1 Antibodies in Cervical Cancer

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

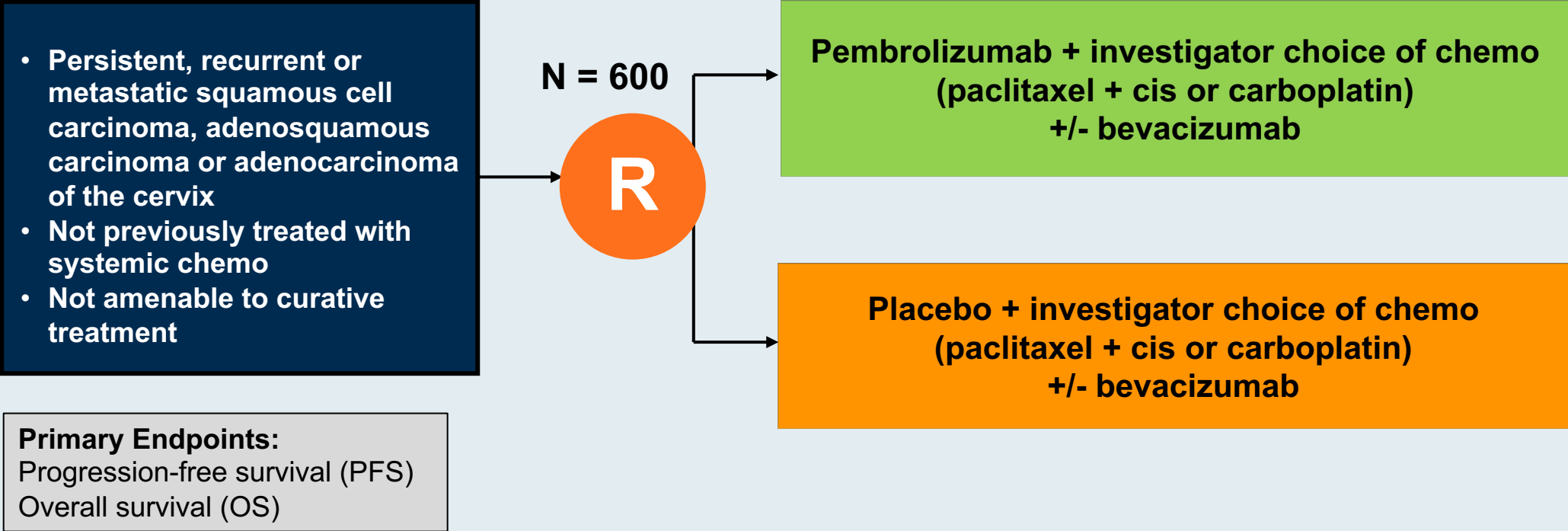


Combined Positive Score (CPS) = PD-L1+ cells (tumor cells, lymphocytes, macrophages) / Total number of tumor cells x 100

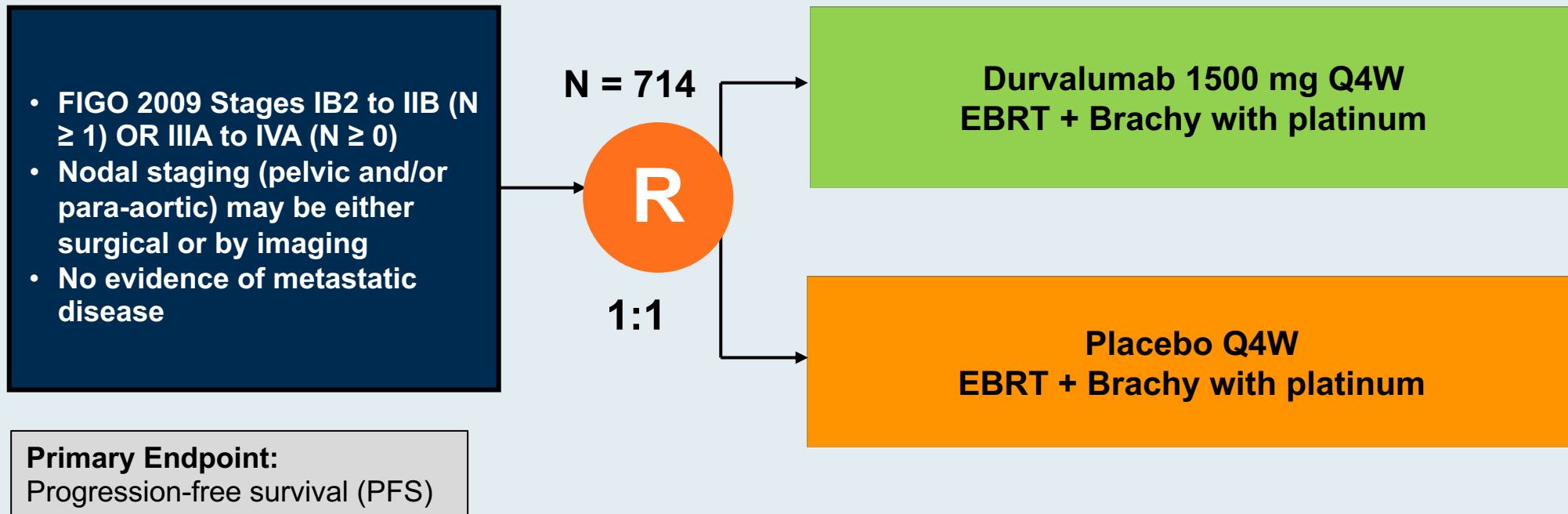
BEATcc Phase III Randomized Front-Line Trial of Atezolizumab



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

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

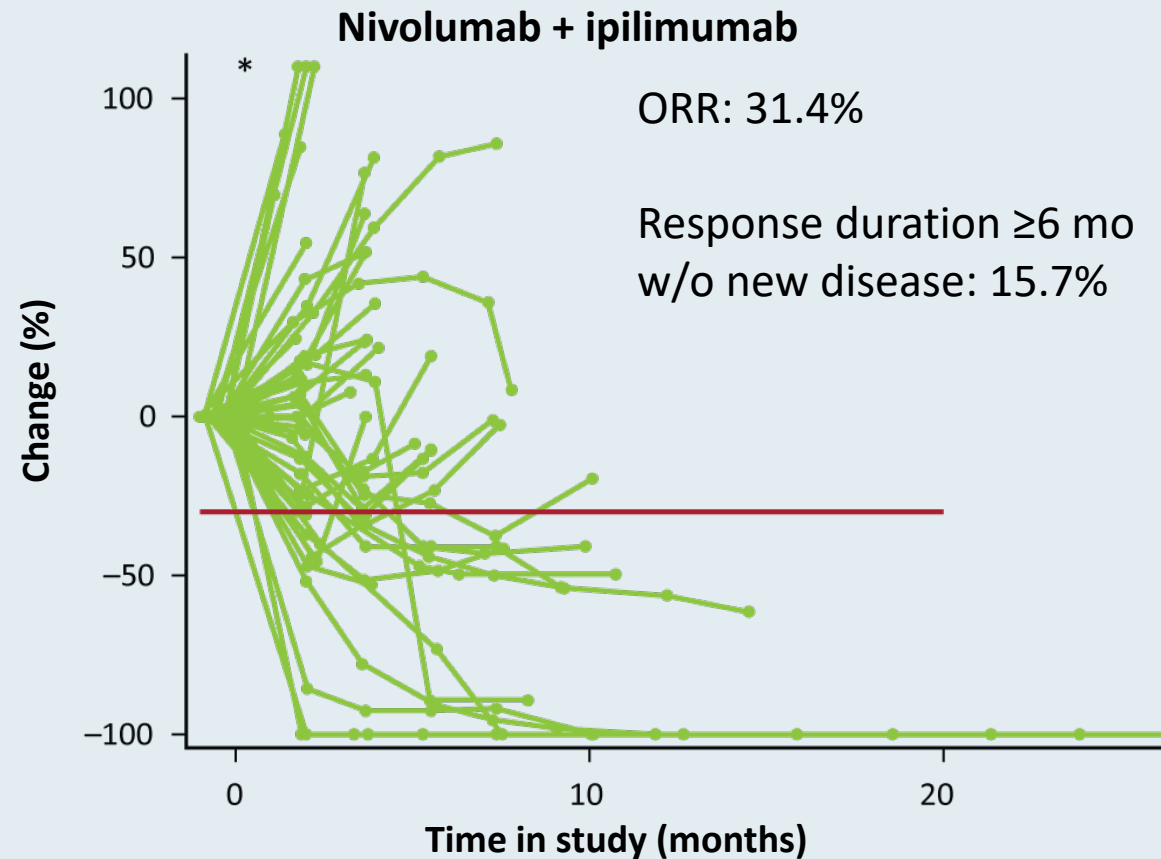
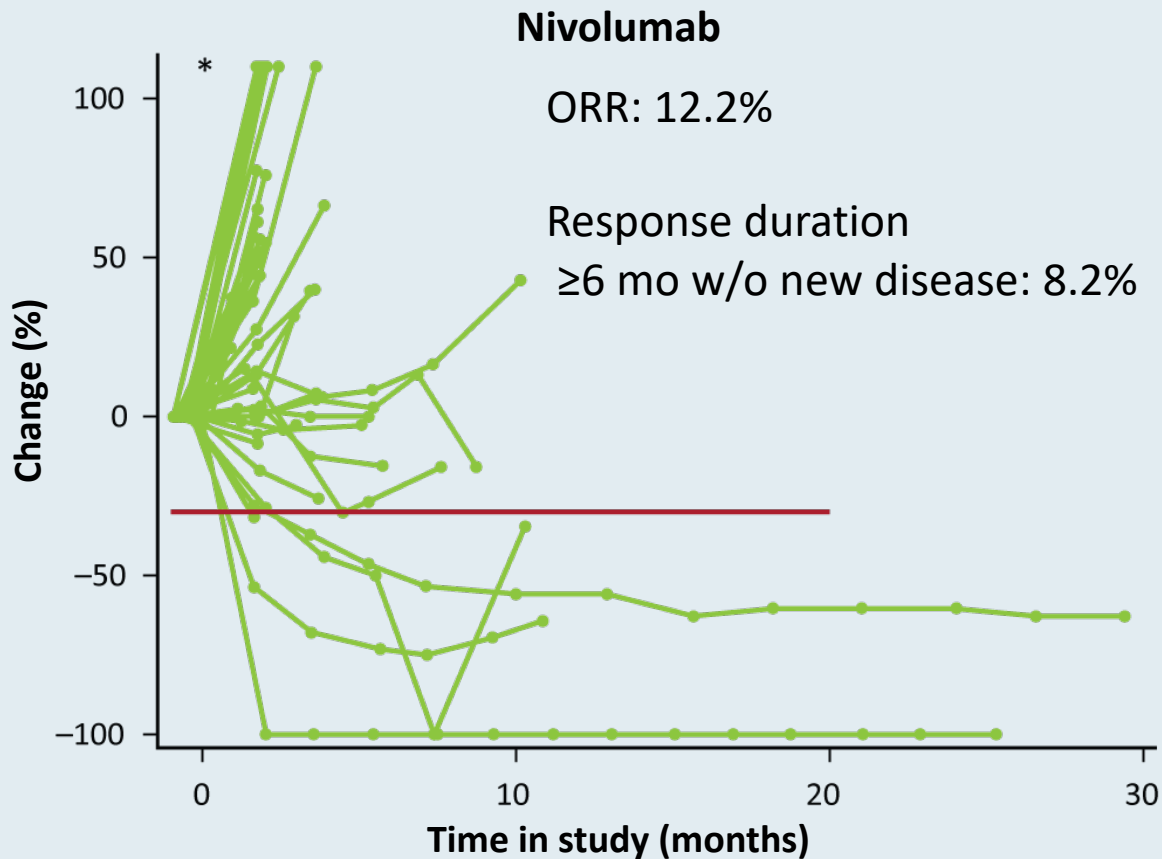
Endpoint	Cohort A 1-3 prior lines PFI/TFI 3-12 months			Cohort B 4-6 prior lines PFI/TFI ≥3 months			Cohorts A + B All comers		
	All n = 285	CPS ≥1 n = 101	CPS ≥10 n =43	All n = 91	CPS ≥1 n = 49	CPS ≥10 n = 22	All n = 376	CPS ≥1 n = 150	CPS ≥10 n = 65
ORR	8.1%	6.9%	11.6%	9.9%	10.2%	18.2%	8.5%	8.0%	13.8%
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

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

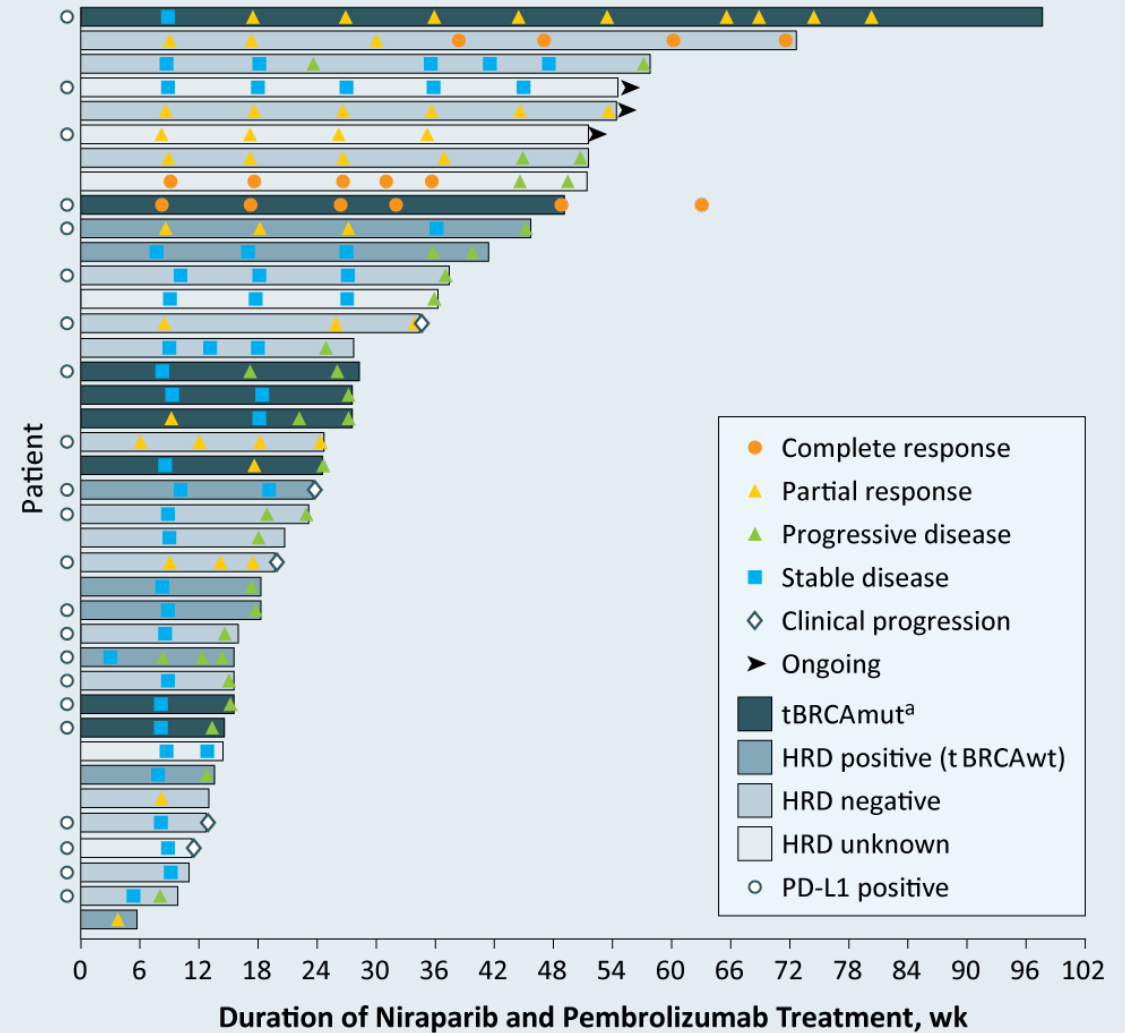
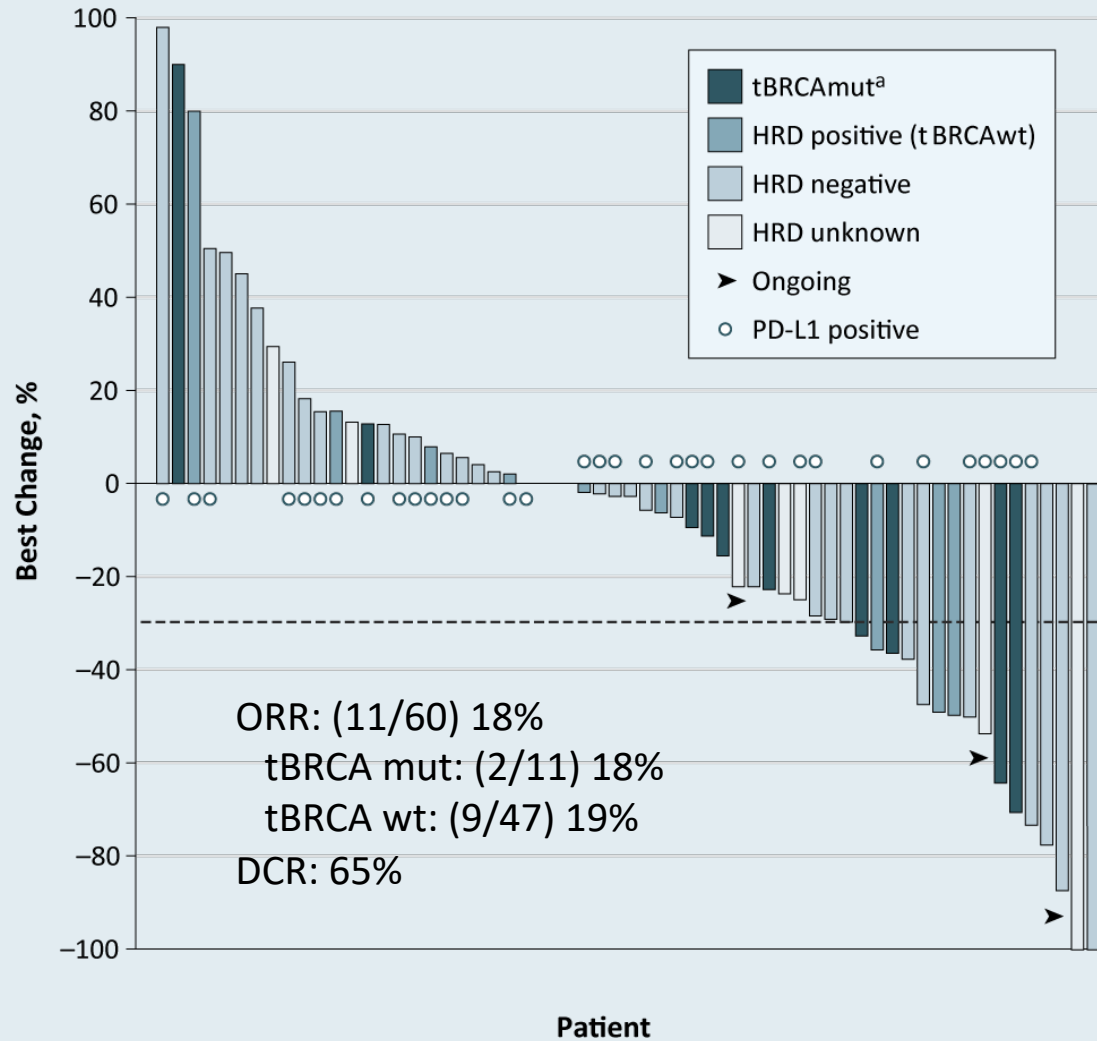
NRG GY003 Phase II Study of Nivolumab with or without Ipilimumab in Recurrent or Persistent OC

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

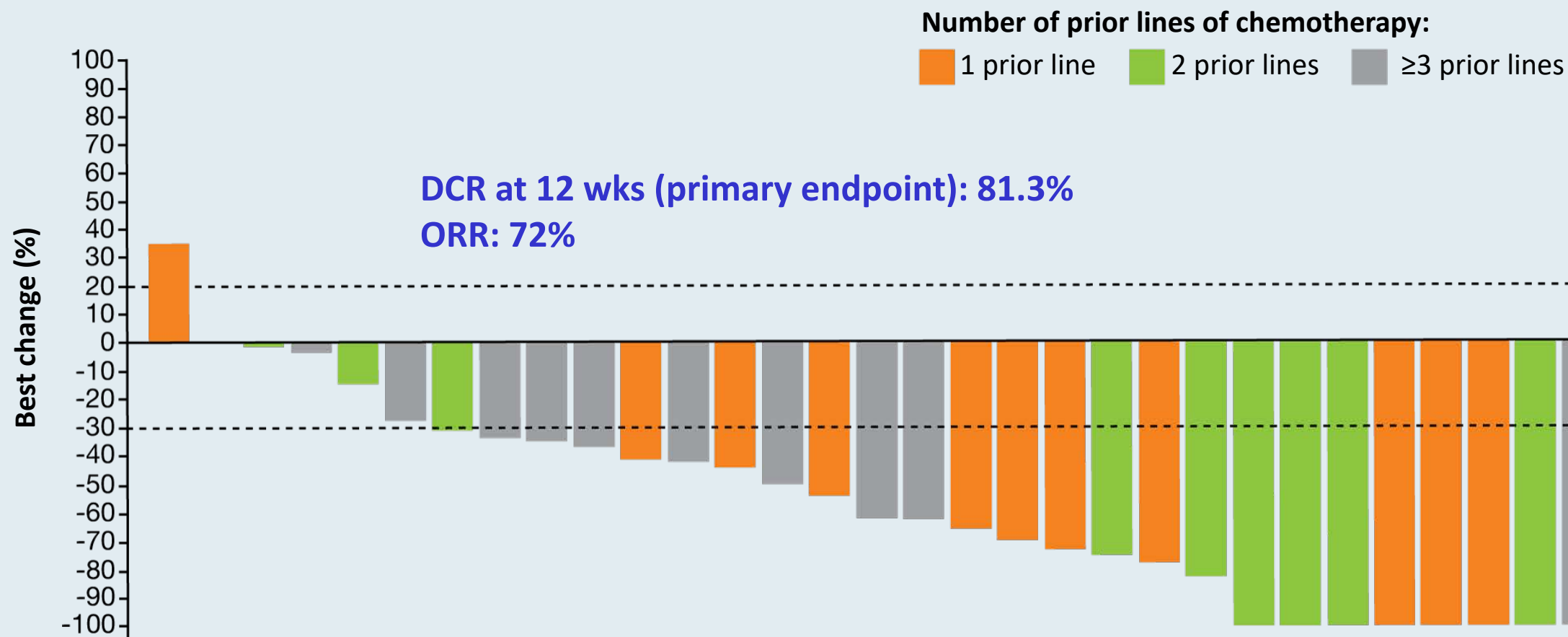


PD-L1 expression was not significantly associated with response in either treatment group

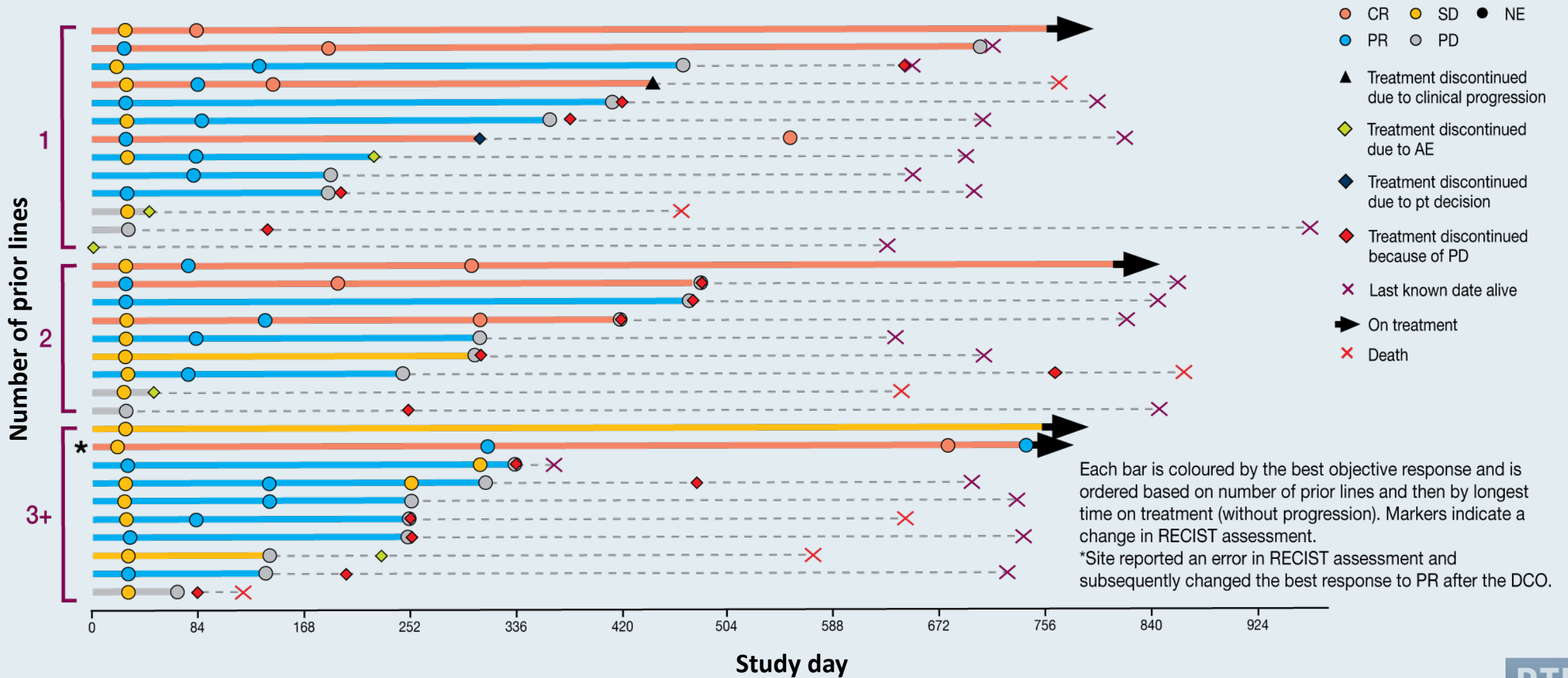
TOPACIO/KEYNOTE-162: Niraparib and Pembrolizumab in Recurrent Platinum-Resistant Ovarian Cancer



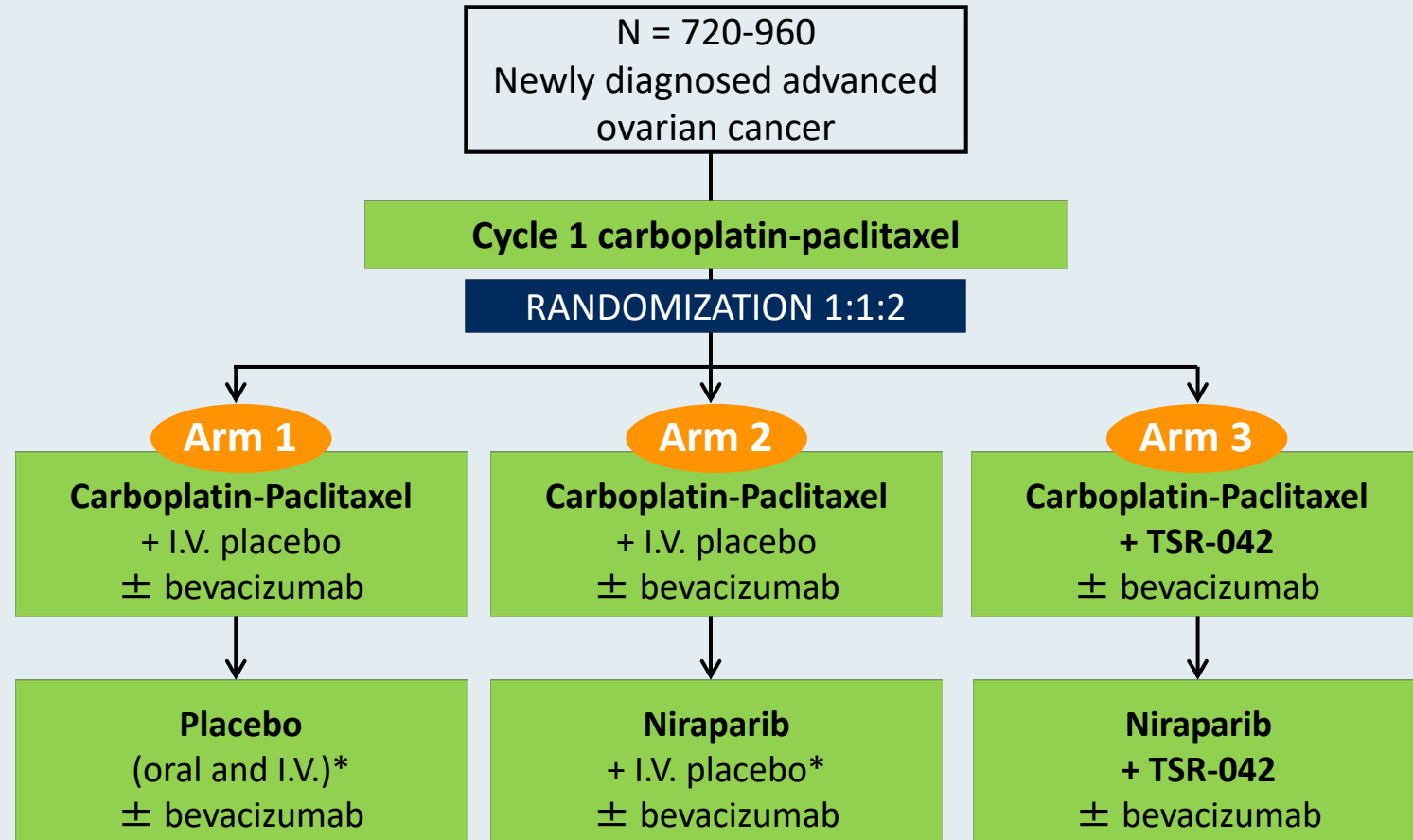
MEDIOLA: A Phase II Study of Olaparib and Durvalumab in gBRCA-Mutated Platinum-Sensitive Relapsed OC



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



*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"> • Rucaparib + nivolumab • Rucaparib + placebo • Nivolumab + placebo • Placebo
DUO-O (NCT03737643)	1,056	Maintenance therapy after 1L platinum-based chemo/bev ± durvalumab	<ul style="list-style-type: none"> • Bevacizumab • Bevacizumab + durvalumab • Bevacizumab + durvalumab + olaparib

HER2-Positive Endometrial Cancer

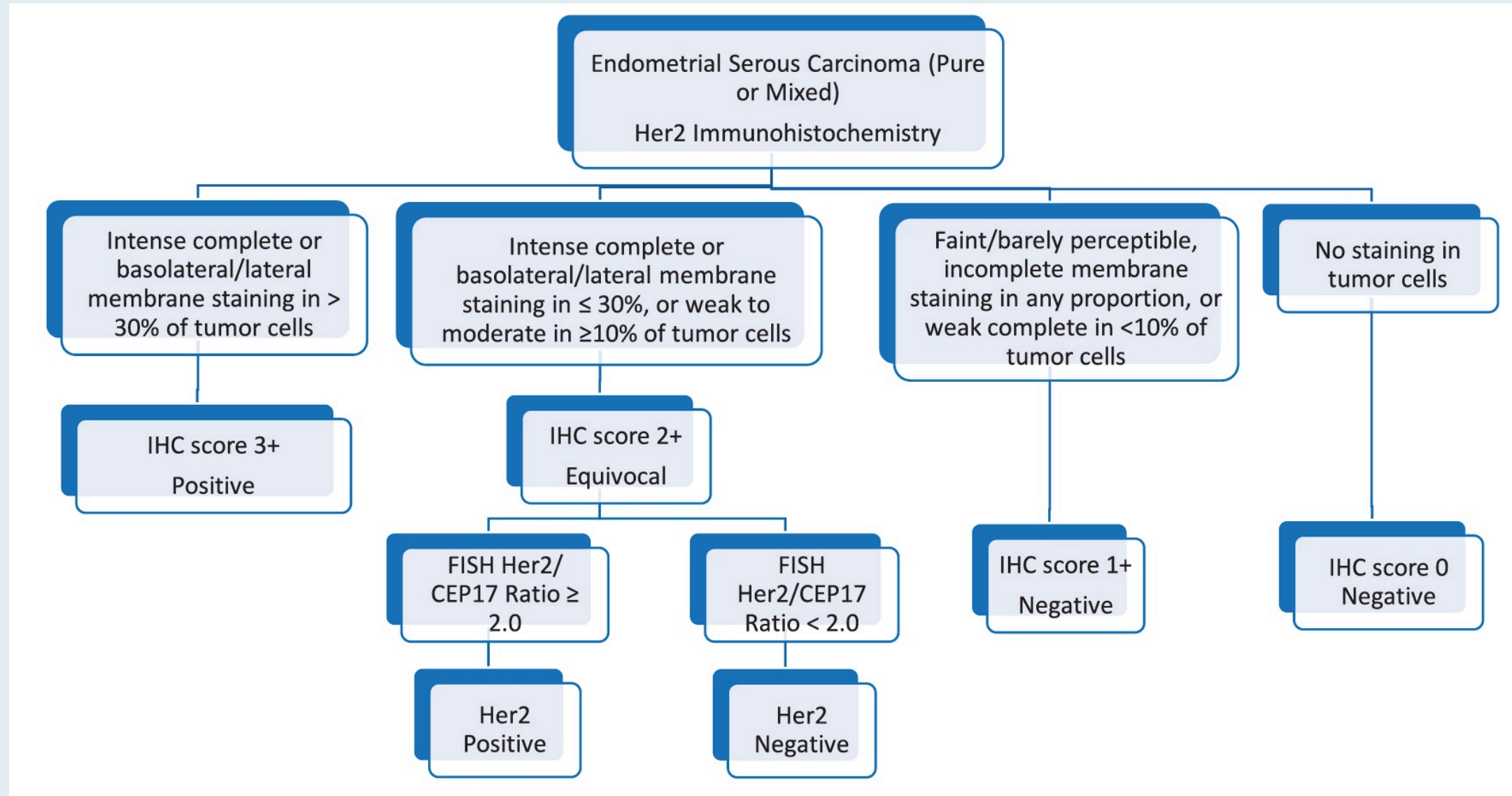
HER2 Testing in Endometrial Serous Carcinoma

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) ²³	Gastric (ASCO/CAP 2016) ³⁶	Colorectal (HERACLES Trial) ³⁹	Endometrial Serous (Fader et al Clinical Trial) ²¹
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.

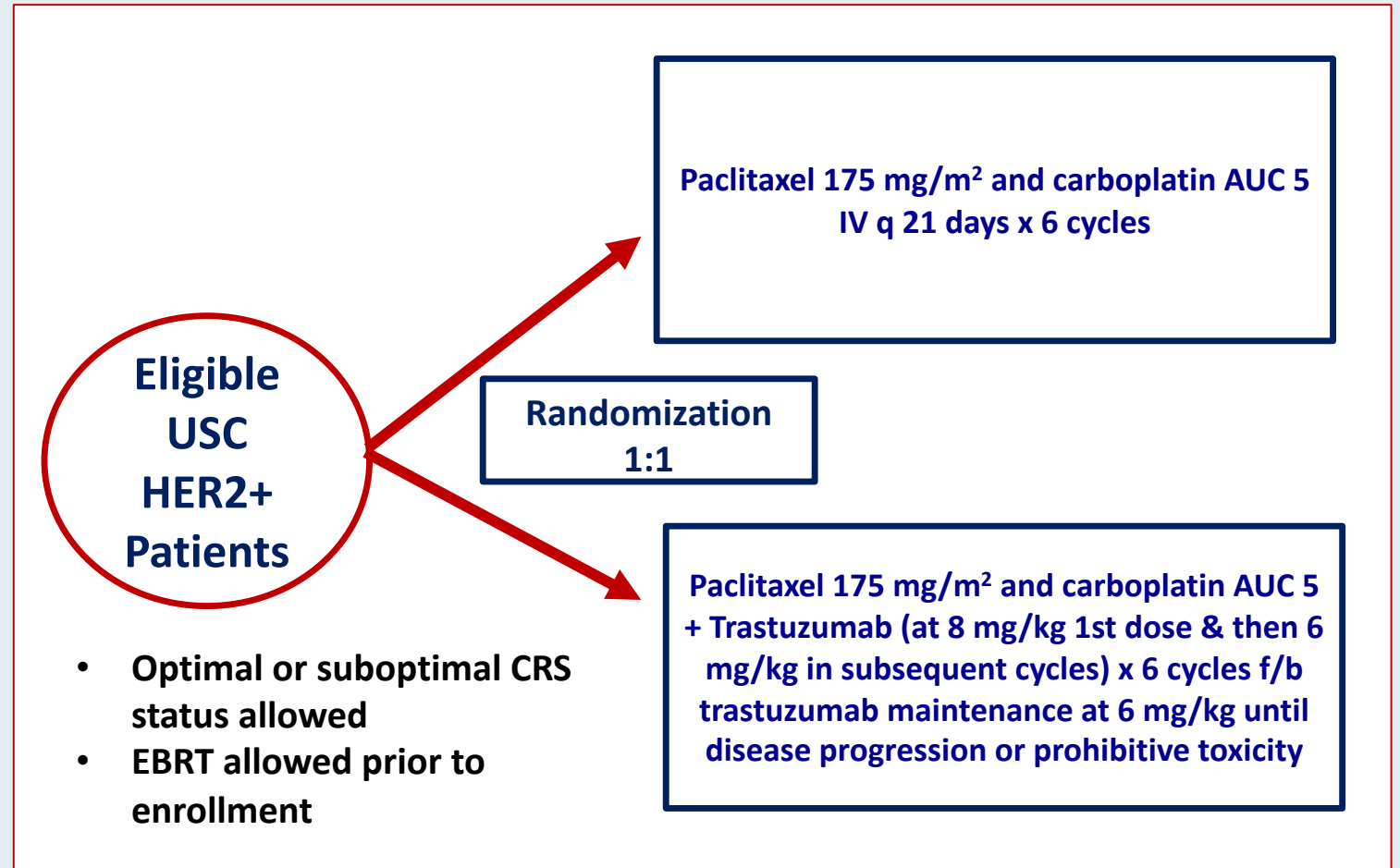
Proposed HER2 Testing Algorithm for Endometrial Serous Carcinoma



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

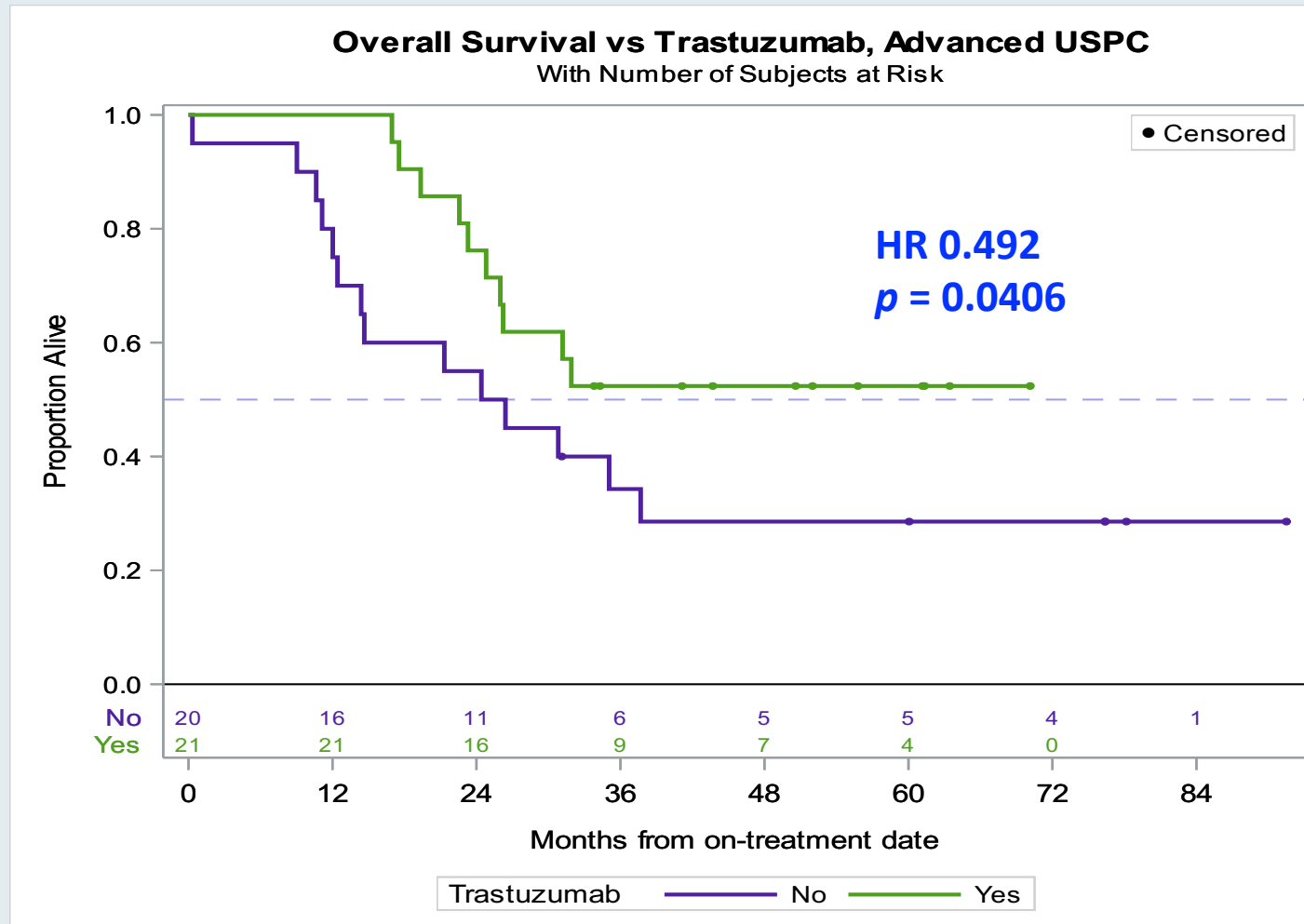
Eligibility

- 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



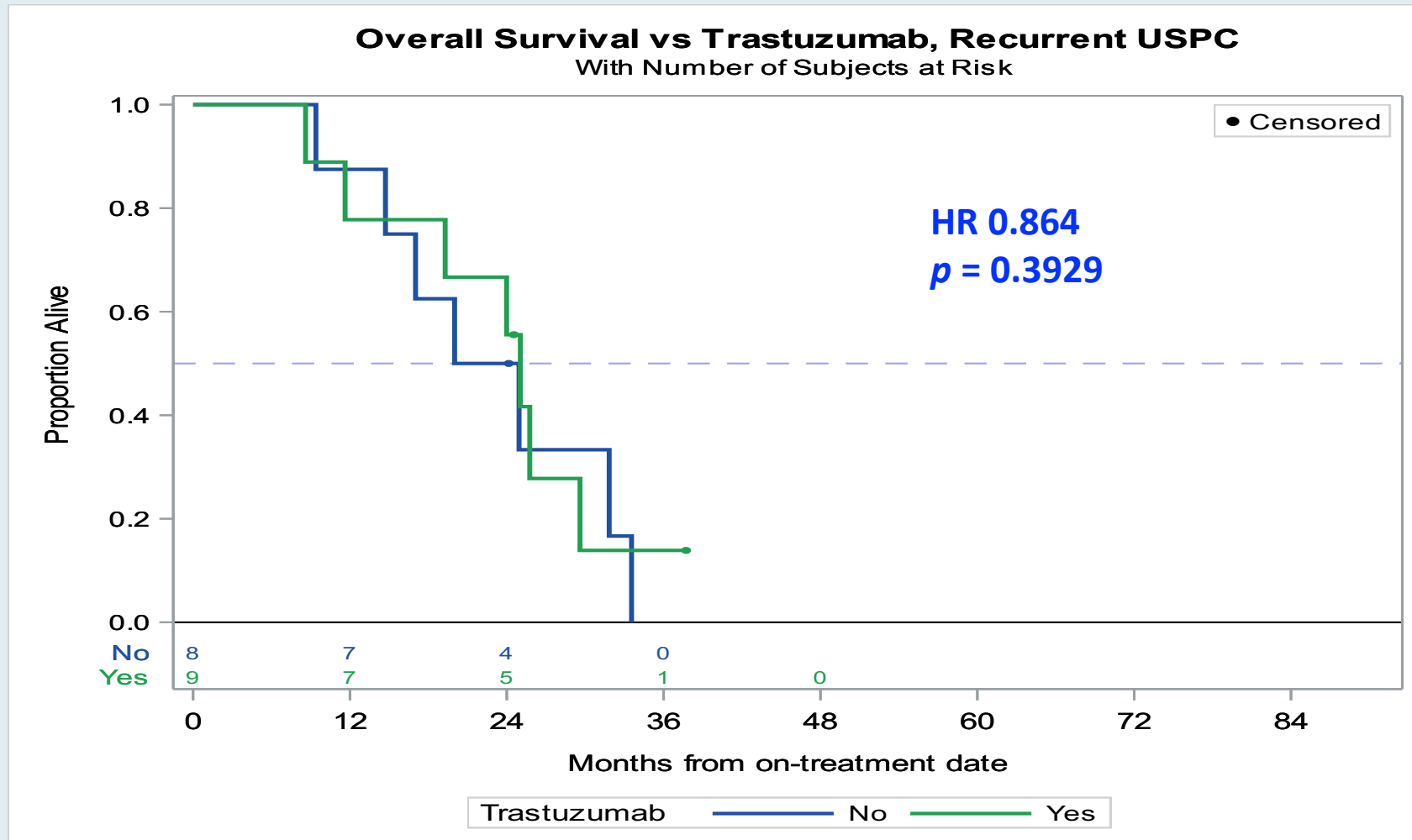
Overall Survival with the Addition of Trastuzumab to Carboplatin/Paclitaxel for Advanced Uterine Serous Papillary Carcinoma (USPC)

- 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

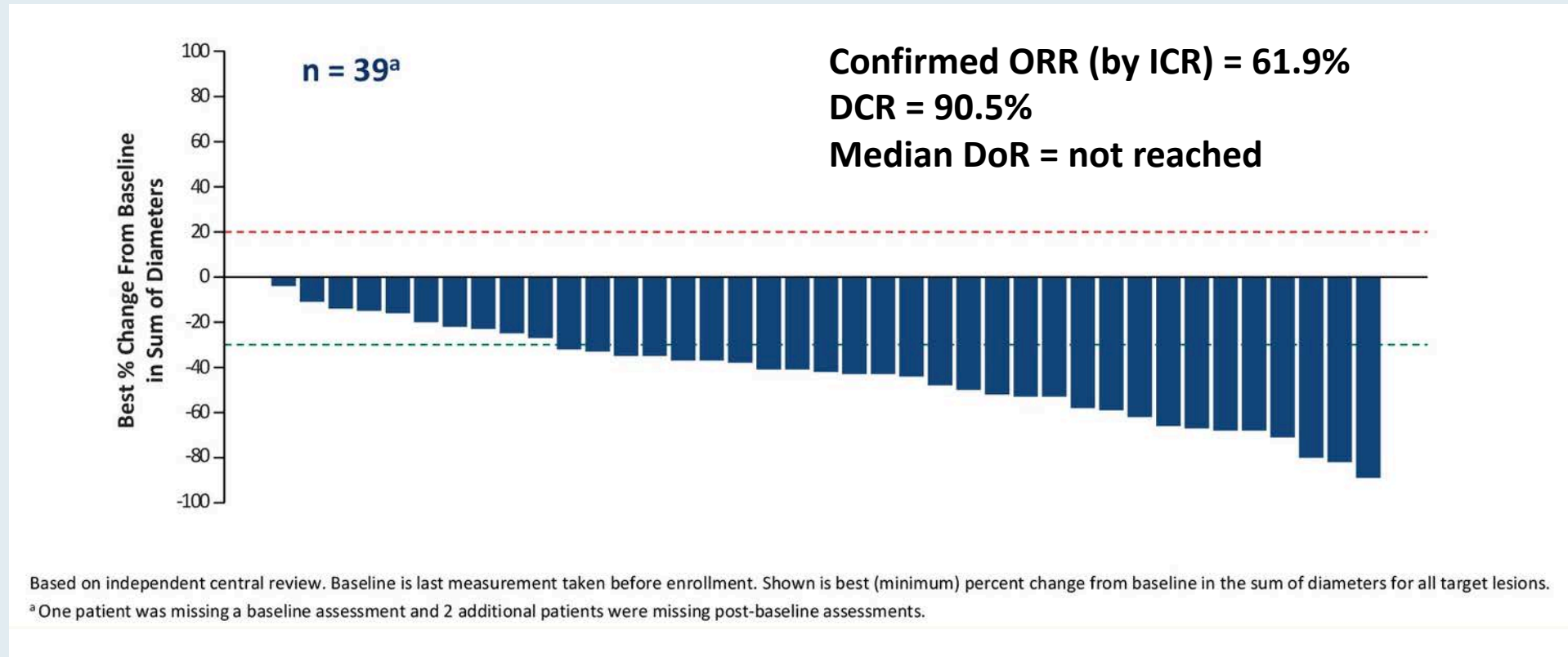
7 cohorts will be evaluated:
Endometrial cancer, cervical cancer, ovarian cancer, bladder cancer, biliary tract cancer, pancreatic cancer and rare tumors

Primary endpoint: ORR

Secondary endpoints include DOR, PFS, OS, DCR

DESTINY-Lung01: Best Change in Tumor Size

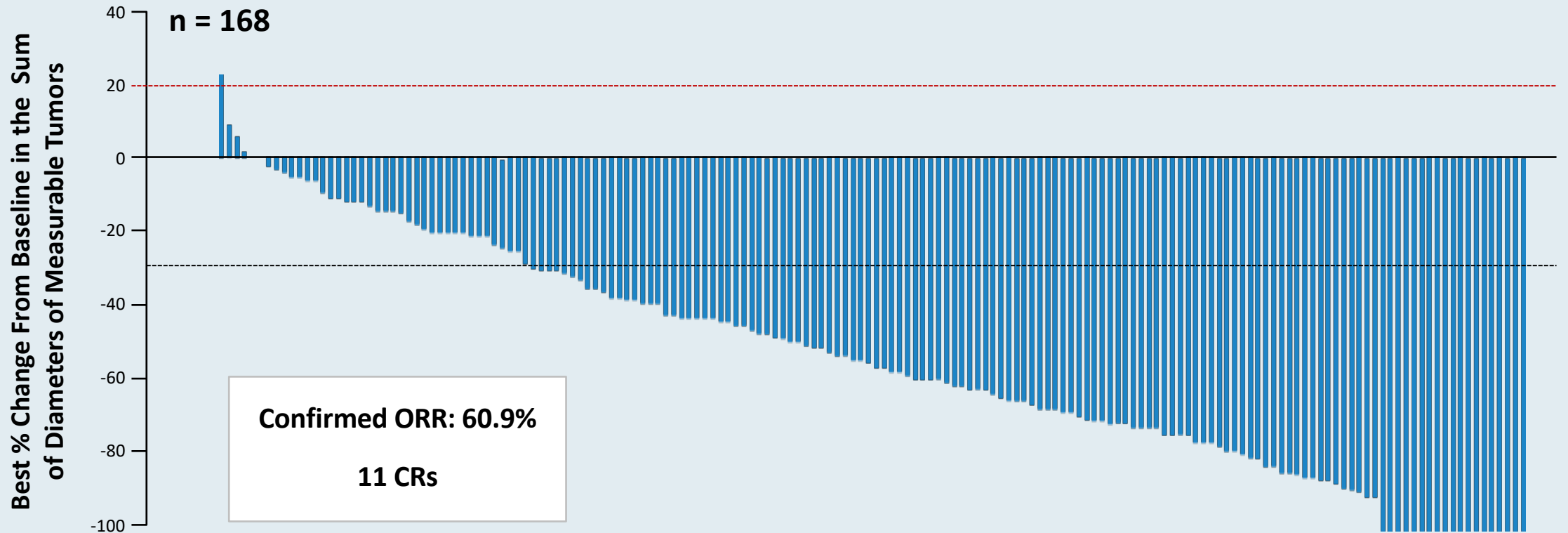
Trastuzumab Deruxtecan in Lung Cancer



Median PFS = 14.0 months

DESTINY-Breast01: Best Change in Tumor Size

Trastuzumab Deruxtecan in Breast Cancer



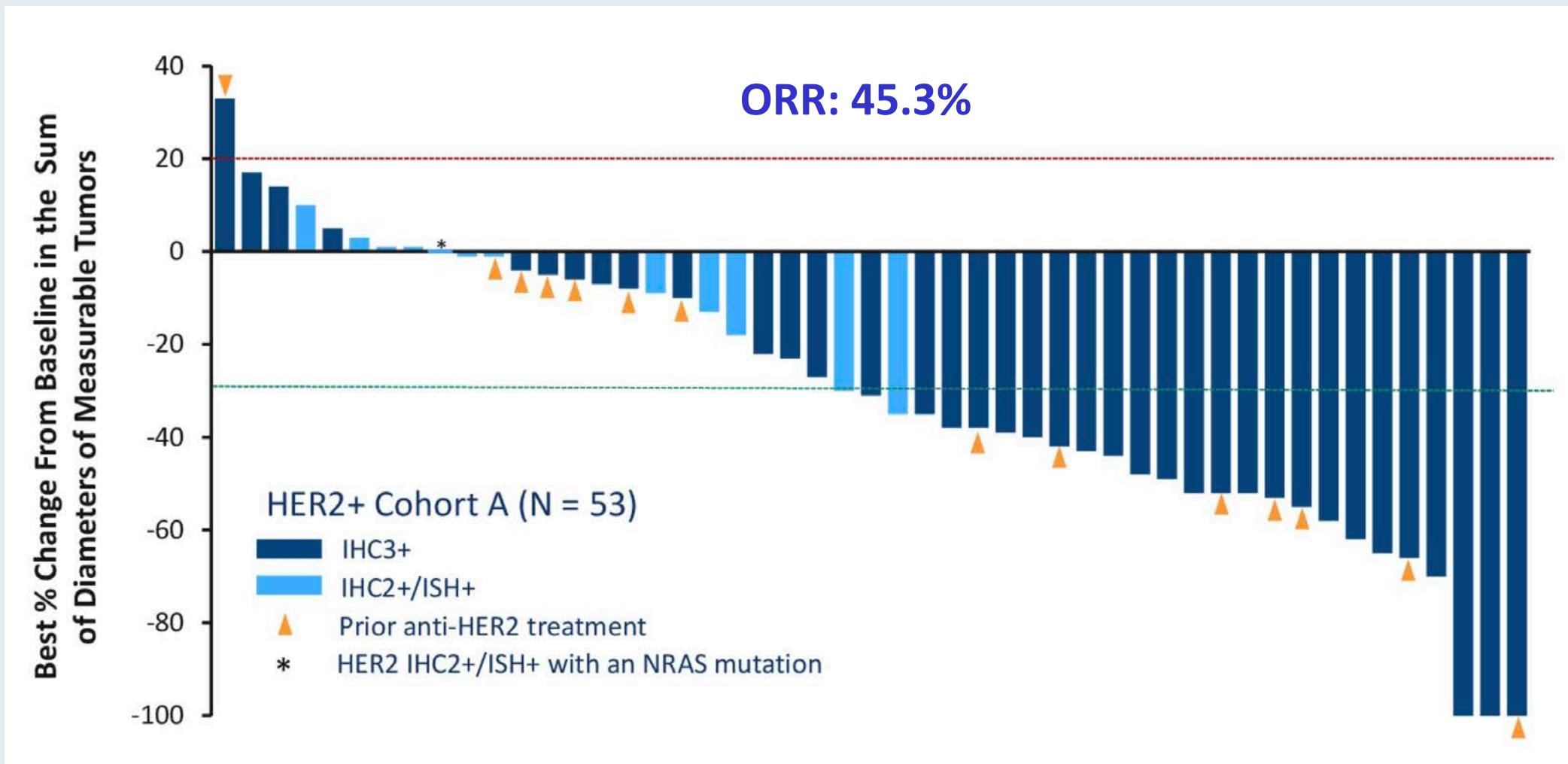
By independent central review.

The line at 20% indicates progressive disease; the line at -30% indicates partial response.

Includes all patients who received T-DXd 5.4 mg/kg (intent-to-treat analysis; N=184).

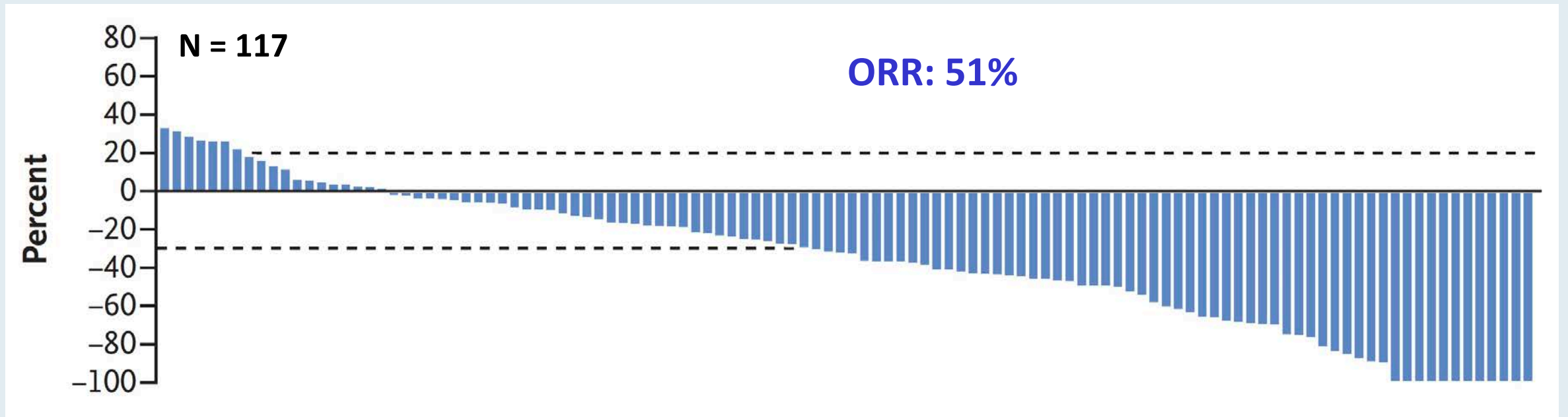
DESTINY-CRC01: Best Change in Tumor Size

Trastuzumab Deruxtecan in Colorectal Cancer



DESTINY-Gastric01: Best Change in Tumor Size

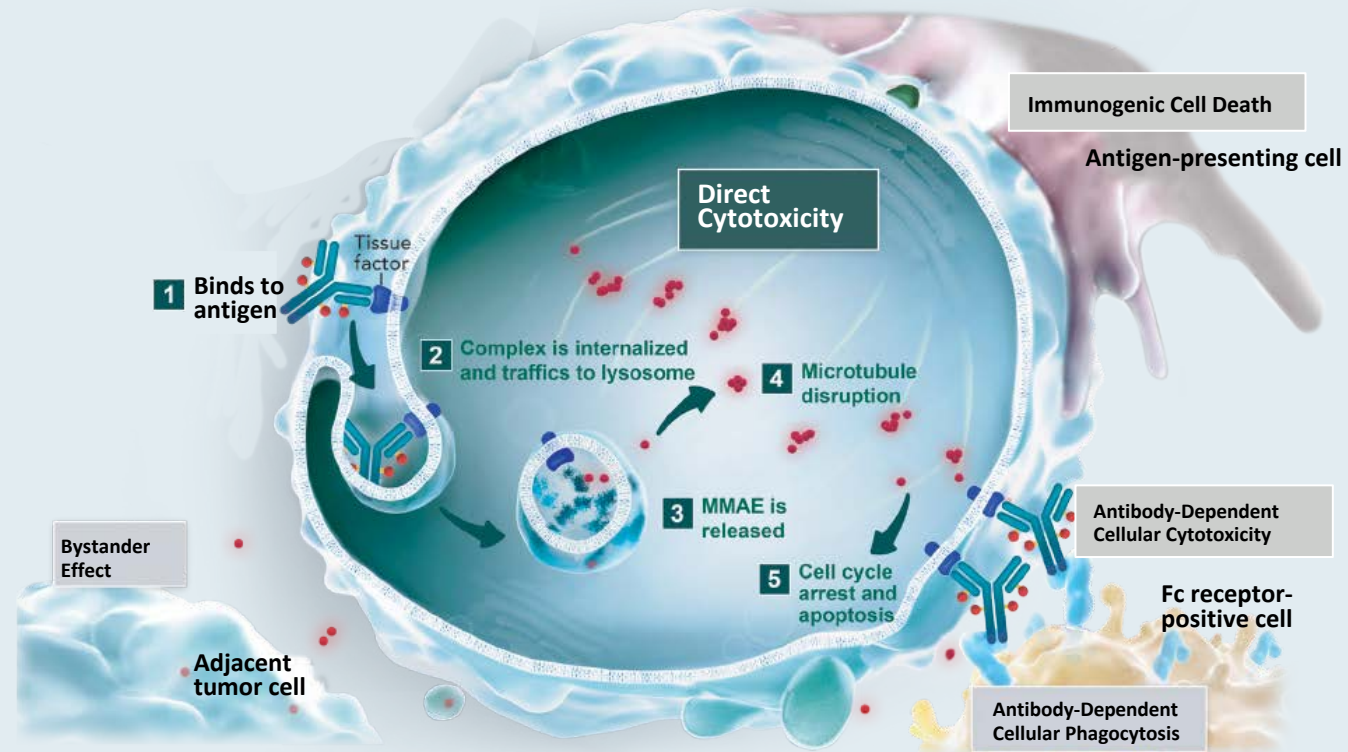
Trastuzumab Deruxtecan in Gastric Cancer



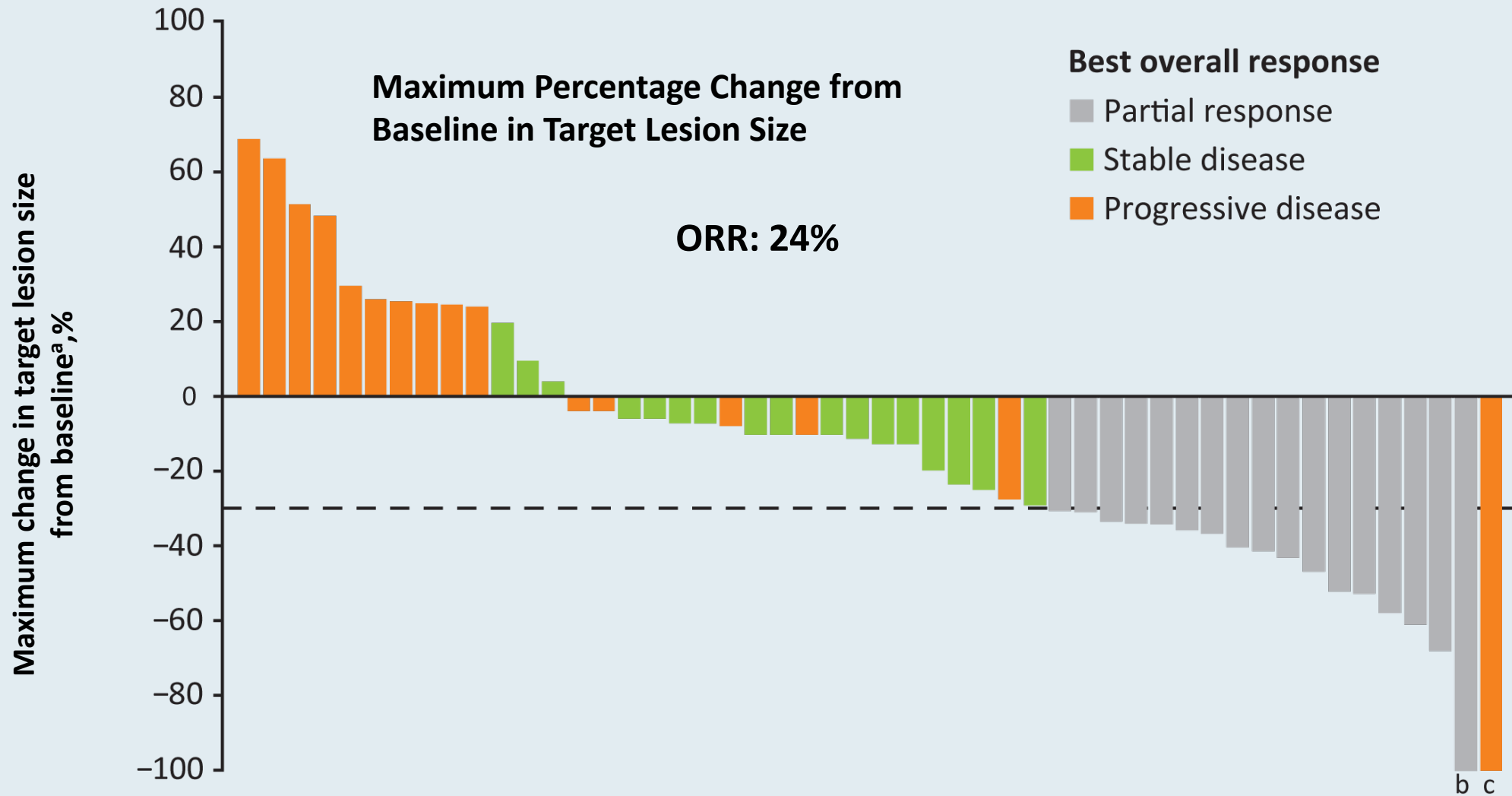
Tisotumab Vedotin and Other Novel Agents in Gynecologic Cancers

Mechanism of Action of Tisotumab Vedotin

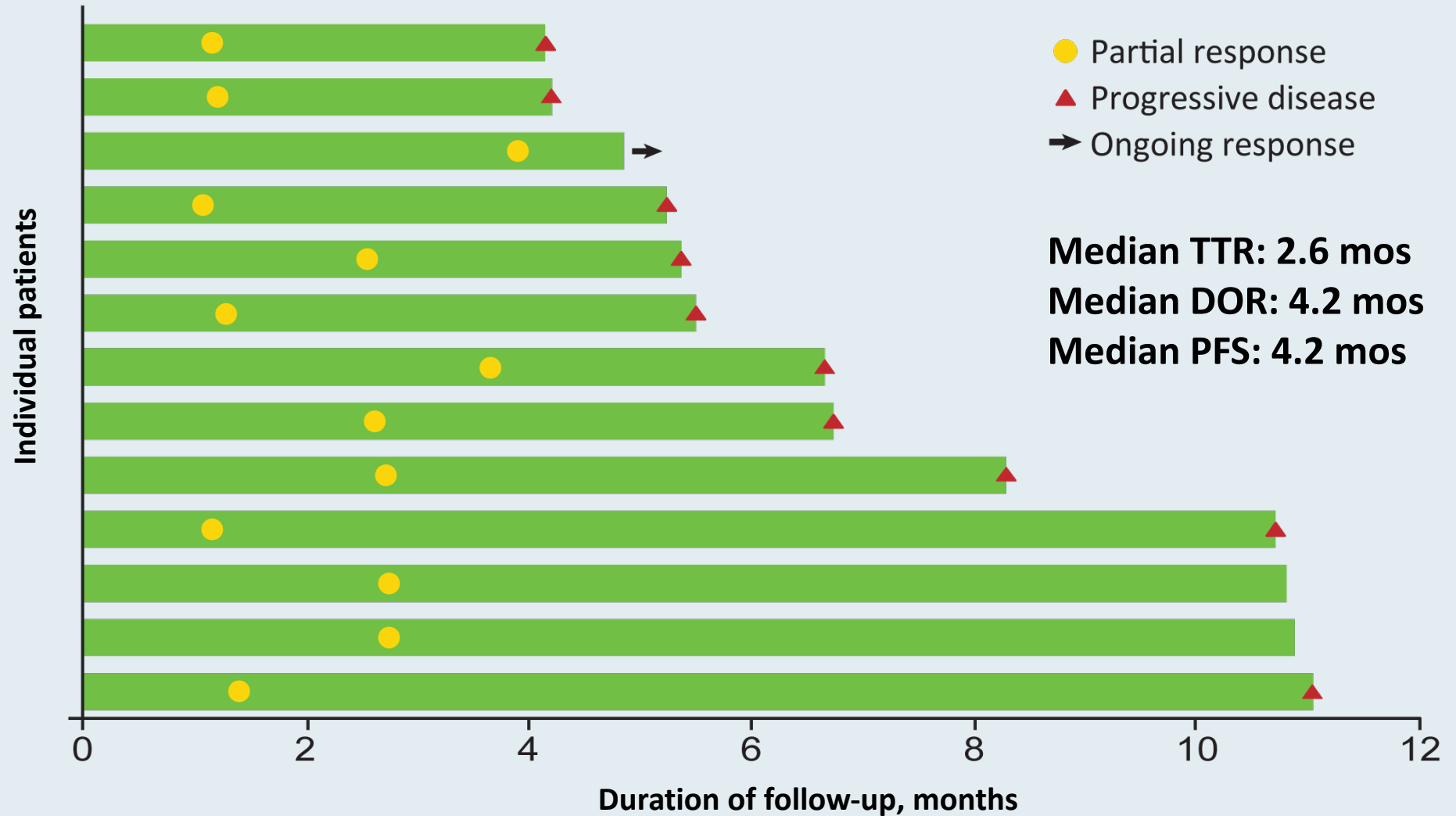
- Tissue factor (TF) is aberrantly expressed in a broad range of solid tumours, including cervical cancer,^{1,2} and TF expression has been associated with higher tumour stage and grade, higher metastatic burden and poor prognosis²
- TF expression in cervical cancer makes TF a novel target for patients 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^{3,4}



innovaTV 201: Best Overall Response to TV

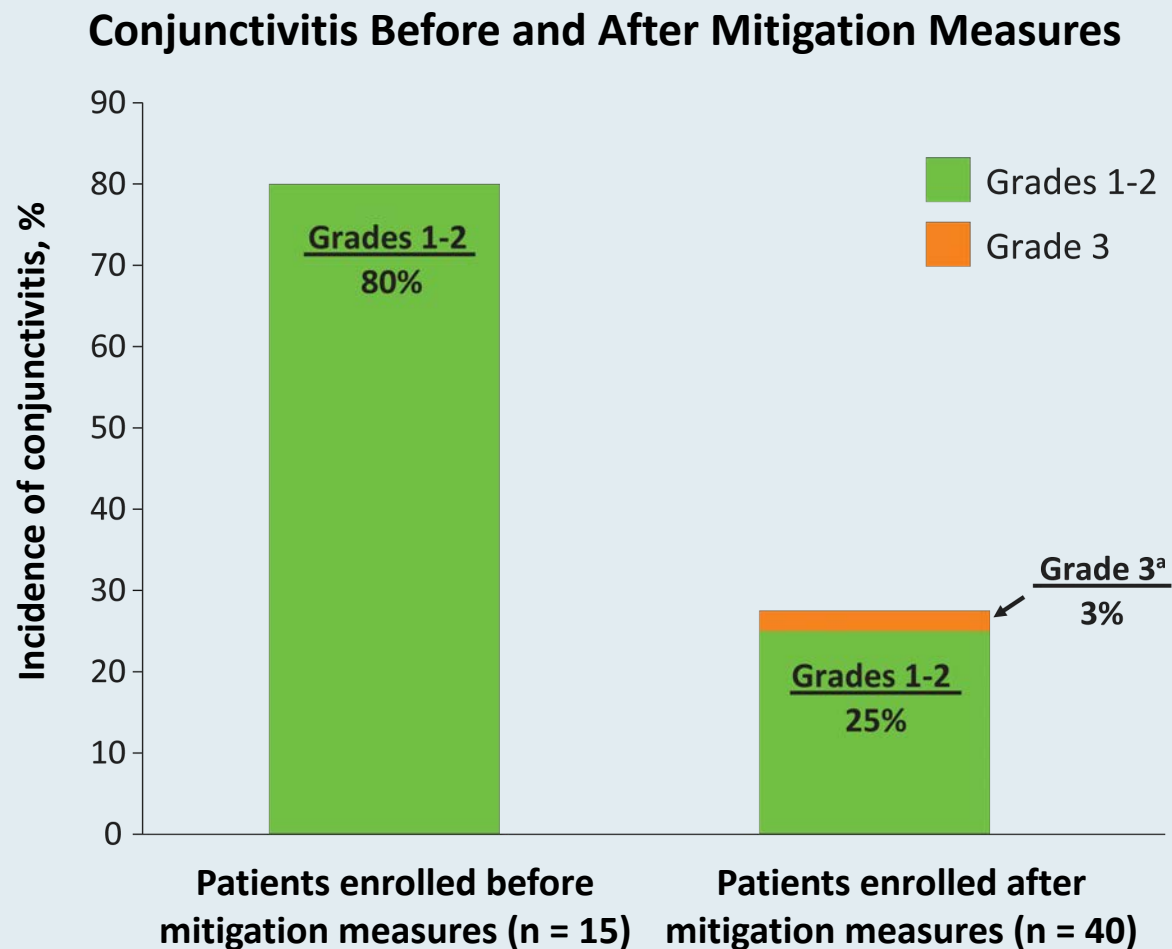


innovaTV 201: Time to Response and Duration of Response in Patients with a Confirmed PR to TV



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



^a One patient with grade 3 conjunctivitis after mitigation measures were implemented. No grade 3 events were observed before mitigation measures were implemented.

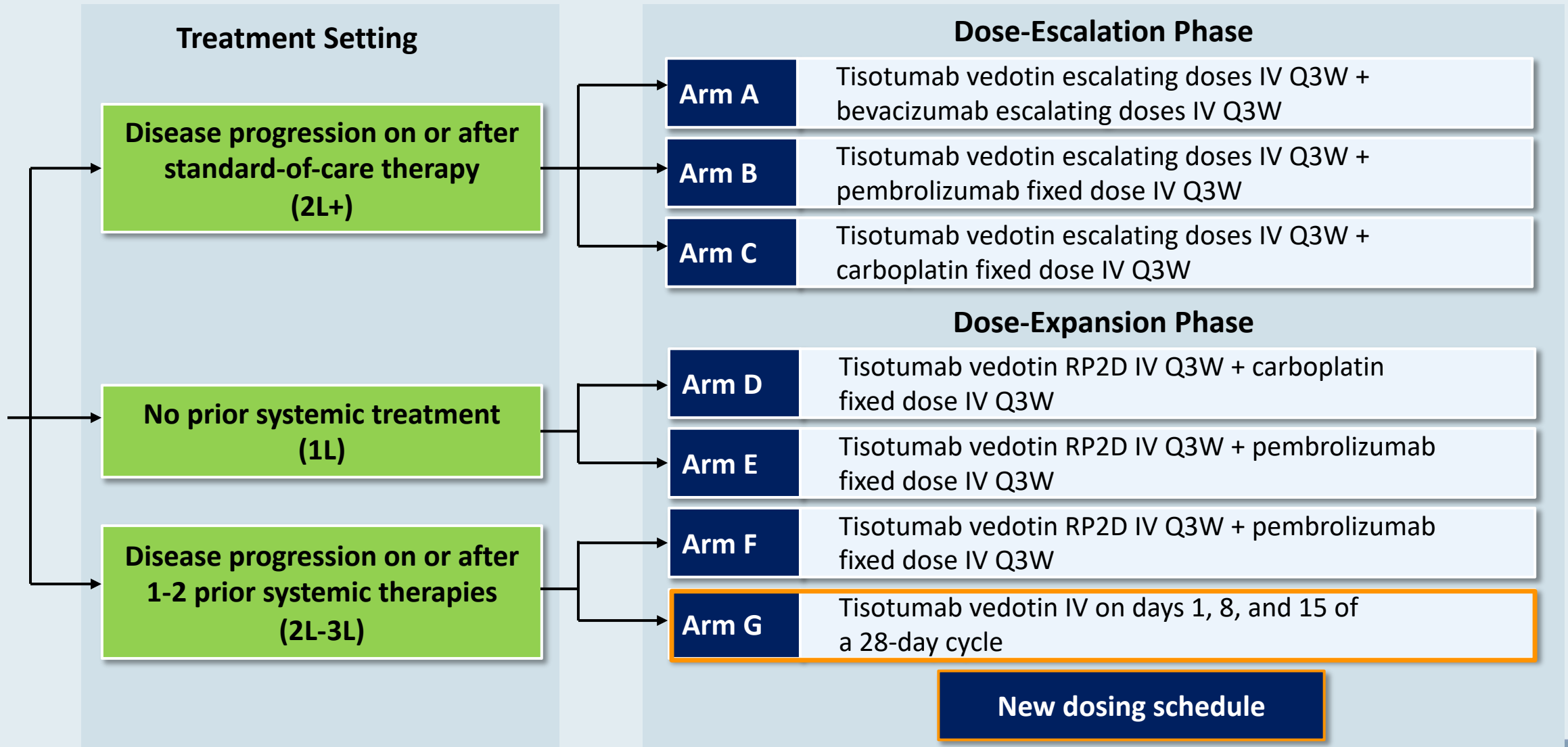
Positive Topline Results with Tisotumab Vedotin in the Phase II InnovaTV 204 Trial

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



Current Questions and Controversies in the Management of Lung Cancer

A Meet The Professor Series

Tuesday, September 29, 2020
12:00 PM – 1:00 PM ET

Faculty

Benjamin Levy, MD

Moderator

Neil Love, MD

Thank you for joining us!

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