

Meet The Professor
**Immunotherapy and Novel Agents in
Gynecologic Cancers**

Brian M Slomovitz, MD

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

Commercial Support

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

Dr Love — Disclosures

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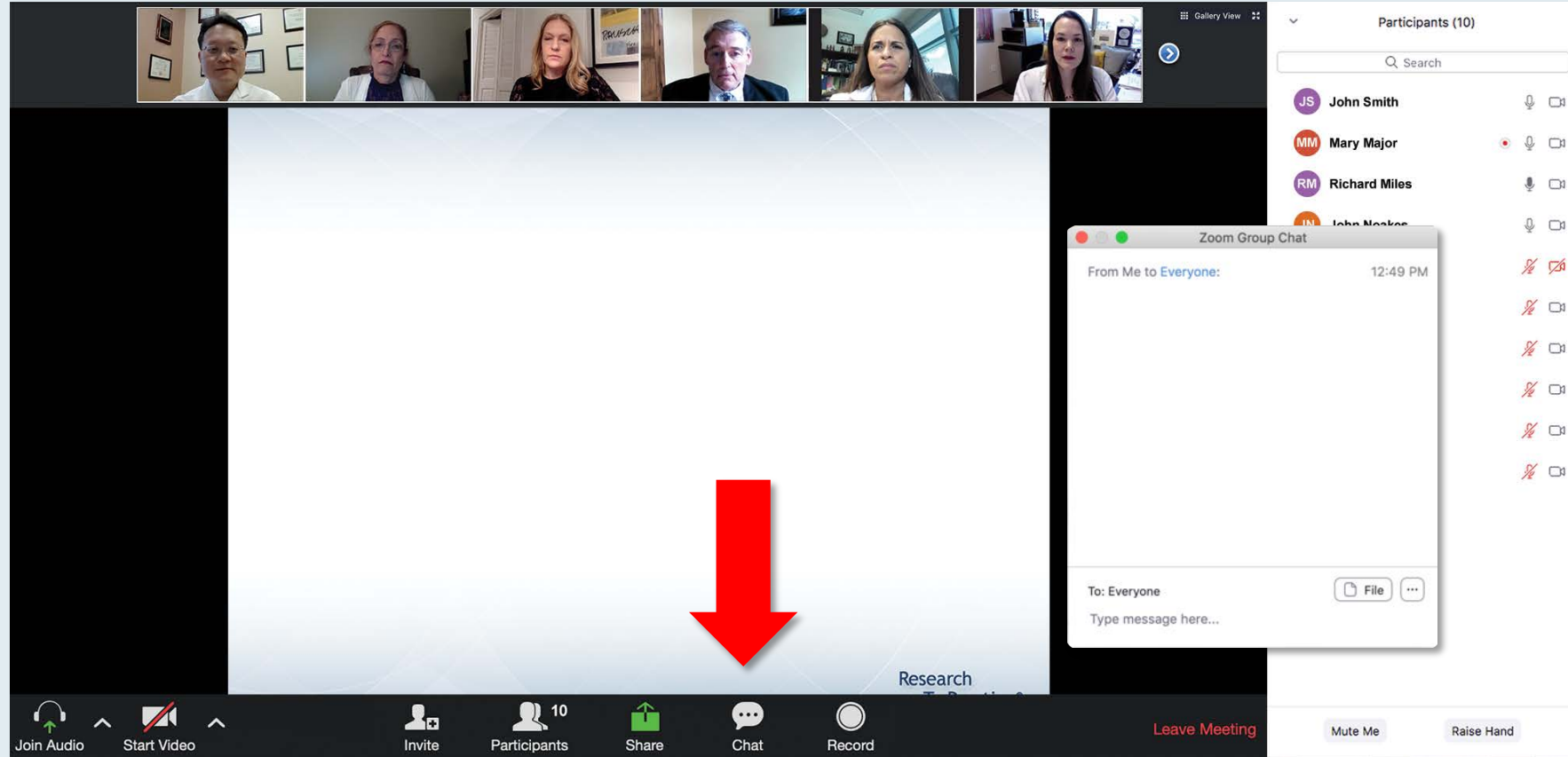
Research To Practice CME Planning Committee Members, Staff and Reviewers

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

Dr Slomovitz — Disclosures

No financial interests or affiliations to disclose

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 six 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

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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.

Upcoming Webinars

Tuesday, October 13, 2020
12:00 PM – 1:00 PM ET

**Meet The Professor:
Management of Lung Cancer**

Faculty

Paul K Paik, MD

Moderator

Neil Love, MD

Wednesday, October 14, 2020
12:00 PM – 1:00 PM ET

**Meet The Professor: Management
of Chronic Lymphocytic
Leukemia**

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**Meet The Professor:
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Kathleen Moore, MD

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Neil Love, MD

**Friday, October 16, 2020
11:00 AM – 12:00 PM ET**

**Addressing Current Questions and
Controversies in the Management
of Non-Small Cell Lung Cancer
with an EGFR Mutation**

Faculty

Roy S Herbst, MD, PhD

Suresh S Ramalingam, MD

Helena Yu, MD

Moderator

Neil Love, MD

Thank you for joining us!

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

ONCOLOGY TODAY

WITH DR NEIL LOVE



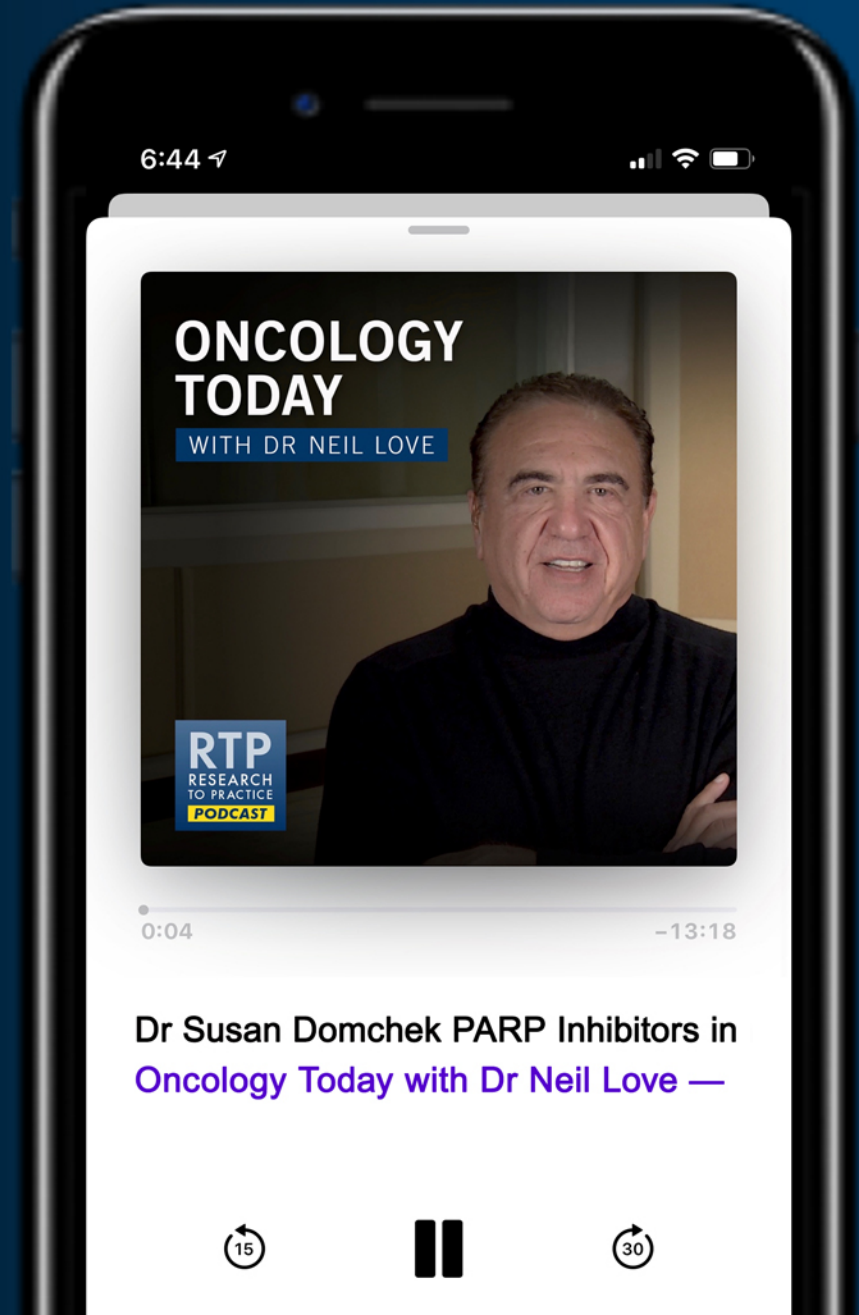
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Meet The Professor Program Participating Faculty



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



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



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



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

Meet The Professor Program Participating Faculty



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



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



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



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



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



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 initials: John Smith (JS), Mary Major (MM), Richard Miles (RM), John Noakes (JN), and Alice Suarez (AS). Below the participants list, a "Zoom Group Chat" window is open, showing a message from "Me to Everyone" at 12:49 PM. The chat window has a text input field and a "File" button. At the bottom of the Zoom interface, there are several icons: "Join Audio", "Start Video", "Invite", "Participants (10)", "Share", "Chat", "Record", "Leave Meeting", "Mute Me", and "Raise Hand".

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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?

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

Co-provided by **USF Health** Research To Practice®

Participants (10)

Name	Microphone	Video
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MM Mary Major	Off	Off
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JN John Noakes	On	Off
AS Alice Suarez	Off	Off
JP Jane Perez	Off	Off
RS Robert Stiles	Off	Off
JF Juan Fernandez	Off	Off
AK Ashok Kumar	Off	Off
JS Jeremy Smith	Off	Off

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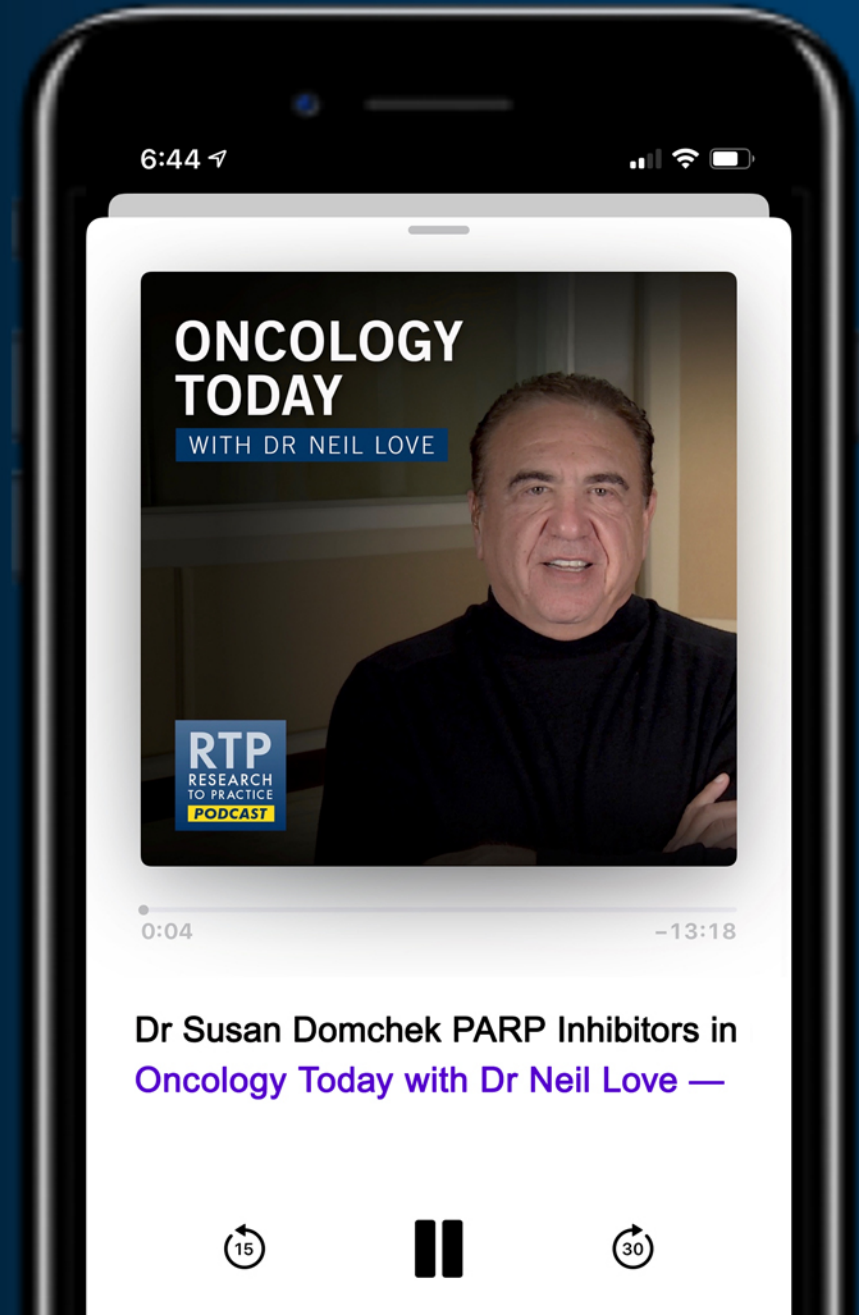
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Gigi Chen, MD
Diablo Valley Oncology and
Hematology Medical Group
Pleasant Hill, California



Erik J Rupard, MD
Chief, Section of
Hematology-Oncology
Tower Health – McGlinn
Cancer Institute
West Reading, Pennsylvania



Laurie Matt-Amaral, MD, MPH
Attending Physician
Cleveland Clinic Akron General
Medical Center
Medina, Ohio

Meet The Professor with Dr Slomovitz

MODULE 1: Cases from Drs Chen, Matt-Amaral and Rupard

- Dr Rupard: A 72-year-old woman with vulvar squamous cell carcinoma
- Dr Chen: A 63-year-old woman who presents with metastatic endometrial cancer
- Dr Chen: A 68-year-old woman with longstanding metastatic endometrial cancer
- Dr Matt-Amaral: A 66-year-old woman with high-grade papillary serous carcinoma

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- Variations in practice patterns in low-grade serous OC
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MODULE 3: Beyond the Guidelines – Clinical Investigator Approaches to Common Clinical Scenarios

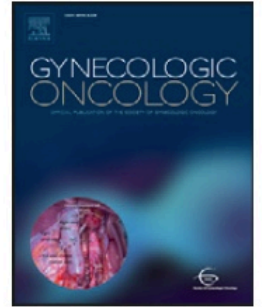
MODULE 4: Key Recent Data Sets



Contents lists available at ScienceDirect

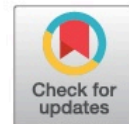
Gynecologic Oncology

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



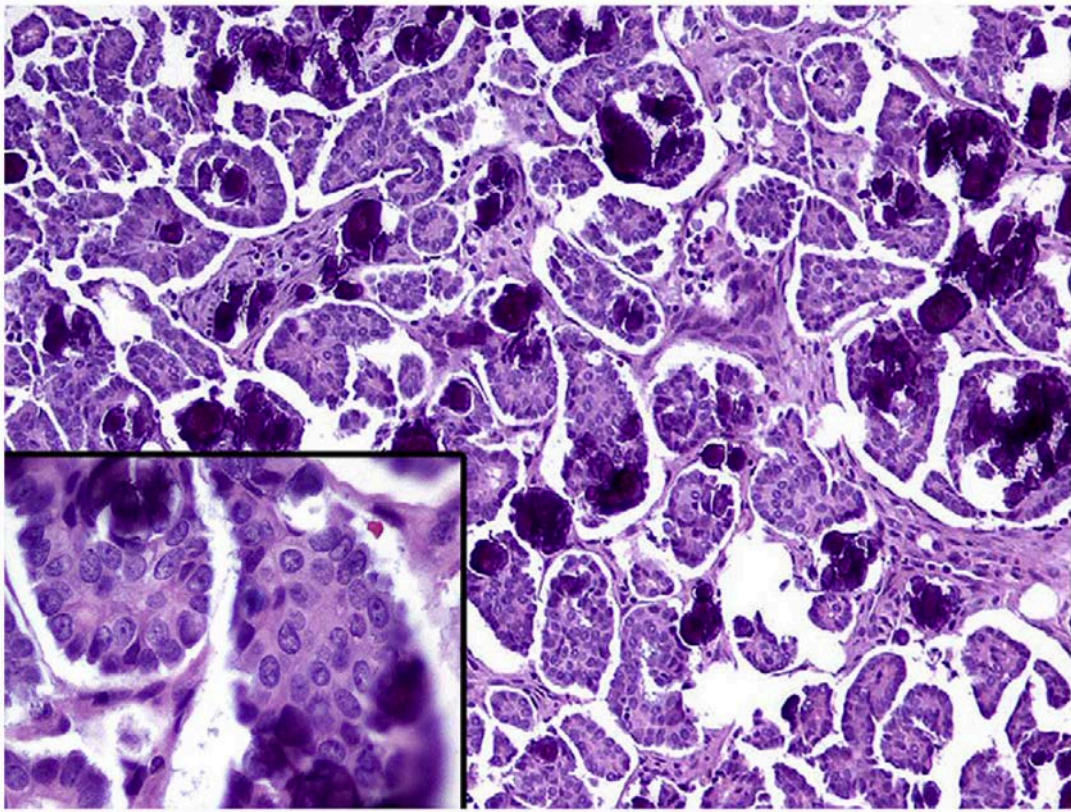
Invited Review

Low-grade serous ovarian cancer: State of the science

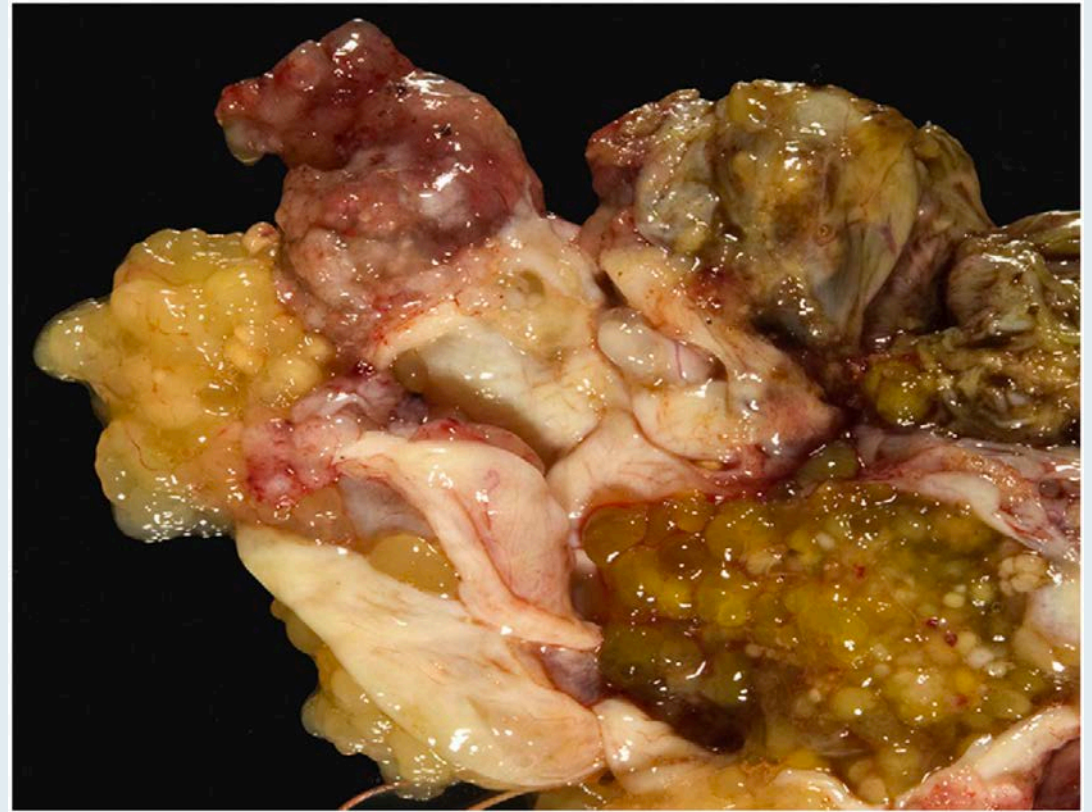


Brian Slomovitz ^{a,*}, Charlie Gourley ^b, Mark S. Carey ^c, Anais Malpica ^d, Ie-Ming Shih ^e, David Huntsman ^f, Amanda N. Fader ^e, Rachel N. Grisham ^{g,h}, Matthew Schlumbrecht ^a, Charlotte C. Sun ⁱ, Jane Ludemann ^j, Gail Austin Cooney ^k, Robert Coleman ^l, Anil K. Sood ^l, Haider Mahdi ^{m,n}, Kwong K. Wong ^l, Allan Covens ^o, David M. O'Malley ^p, Fabrice Lecuru ^{q,r}, Lauren P. Cobb ^l, Thomas A. Caputo ^s, Taymaa May ^t, Marilyn Huang ^a, John Siemon ^a, Marta Llauradó Fernández ^c, Isabelle Ray-Coquard ^u, David M. Gershenson ^l

Pathologic and Gross Features of Low-Grade Serous Carcinoma

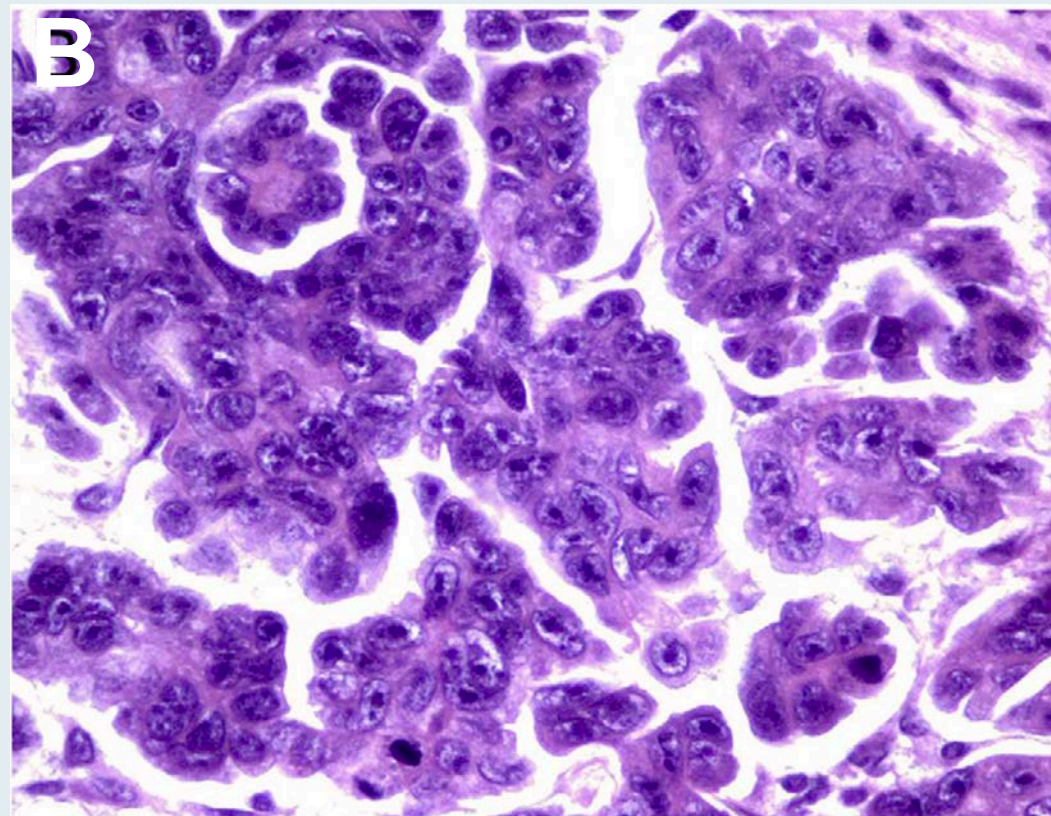
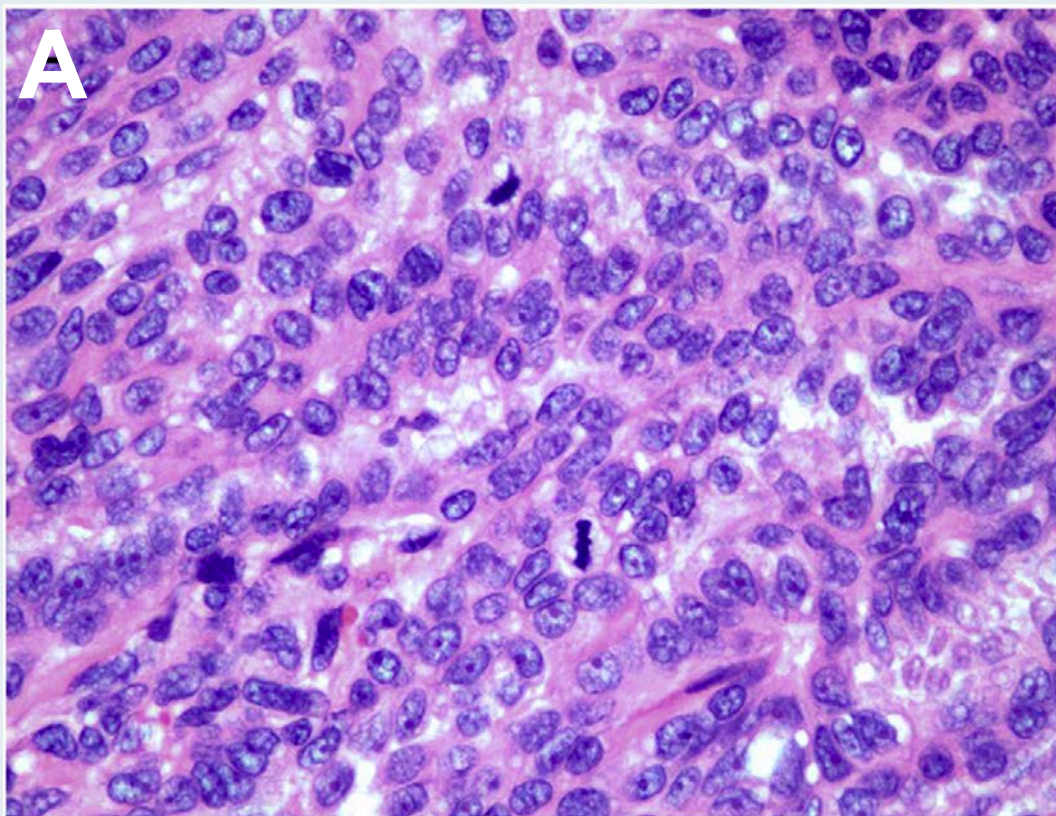


Low-grade serous carcinoma: Monotonous cells with mild atypia



Low-grade serous carcinoma: Gross image; the tumor has cystic spaces, papillary excrescences, and nodular areas

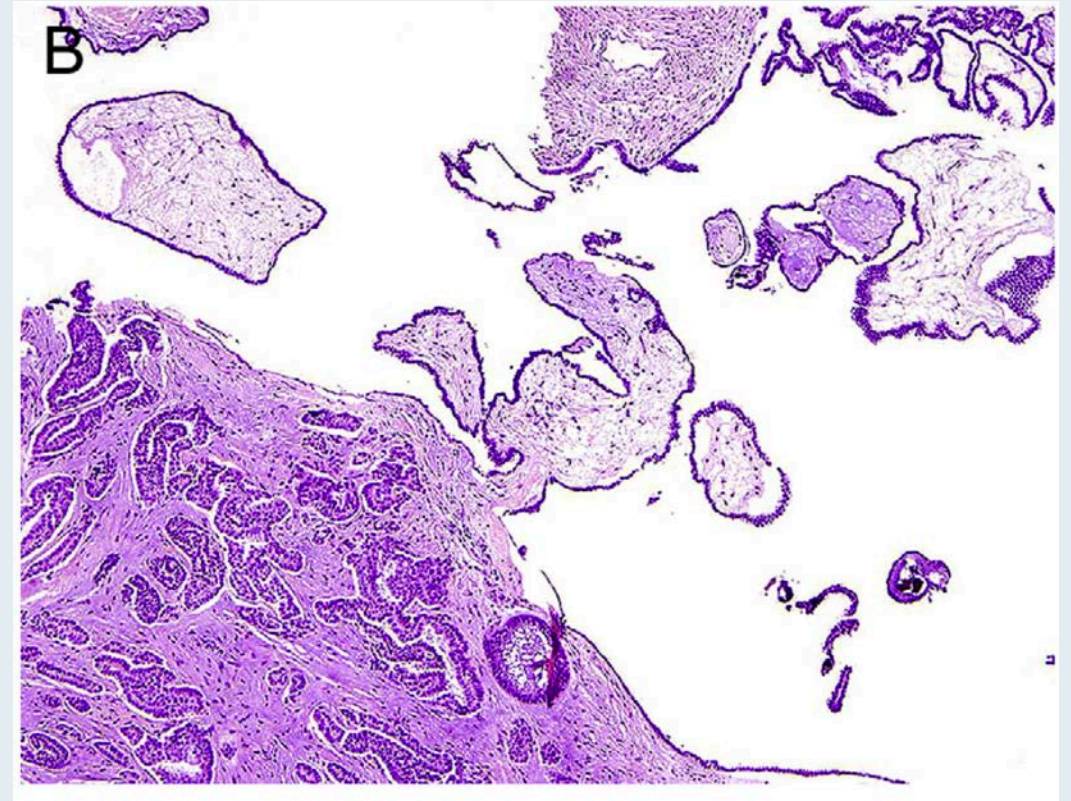
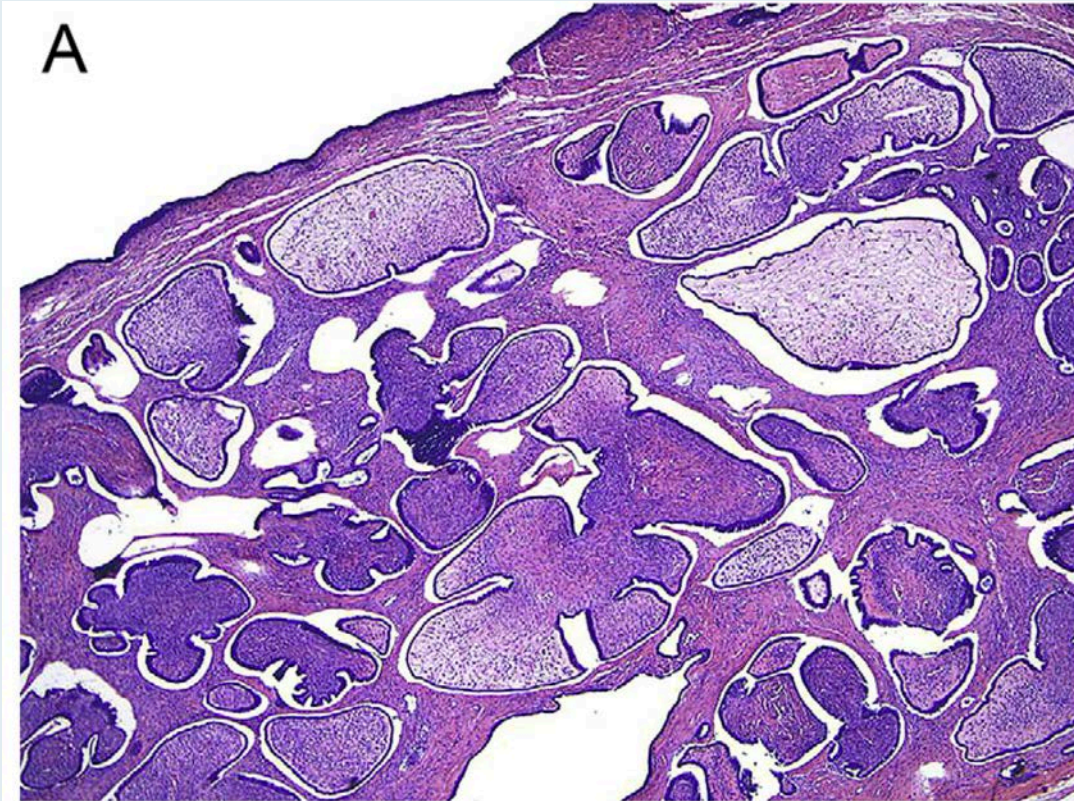
Low-Grade Serous Carcinoma: Mitotic Index



Low-grade serous carcinoma with a high mitotic index (A) and associated high-grade serous carcinoma component (B).

The mitotic index is generally low. The presence of numerous mitotic figures should prompt a very careful histological evaluation to rule out the rare association with a HGSC component (A, B)

Low-Grade Serous Carcinoma: Microscopic Features



Low-grade serous carcinoma, macropapillae invading the stroma in an area $>3\text{mm}$ (A), micropapillary pattern in area of invasion associated with stromal changes (B)

LGSC shows destructive invasion, which is recognized by the presence of neoplastic cells in the tumor/ovarian stroma in an area that either measures $\geq 3.0\text{ mm}$ in linear dimension or has desmoplasia

Original Article

INTERNATIONAL JOURNAL OF
GYNECOLOGICAL CANCER

Low grade serous ovarian carcinoma: identifying variations in practice patterns

John Siemon,¹ David M Gershenson,² Brian Slomovitz,¹ Matthew Schlumbrecht¹

Int J Gynecol Cancer 2019;29(1):174-80

Case Presentation – Dr Rupard: A 72-year-old woman with vulvar squamous cell carcinoma

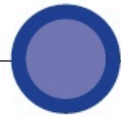


Dr Erik J Rupard

- Vulvar squamous cell carcinoma → resection and RT
- Repeatedly declined chemotherapy, but began inquiring about immunotherapy in 2016
- 1/2020: Pembrolizumab, with good response

Questions

- What are your thoughts about the NCCN vulvar carcinoma guidelines?
- What are your thoughts about the use of PD-1/PD-L1 inhibitors in squamous cell or other vulvar cancers? Have you had success with the checkpoint inhibitors in vulvar cancers?



CME Article

DOI: 10.1111/ddg.13995

Submitted: 19.8.2019

Accepted: 30.10.2019

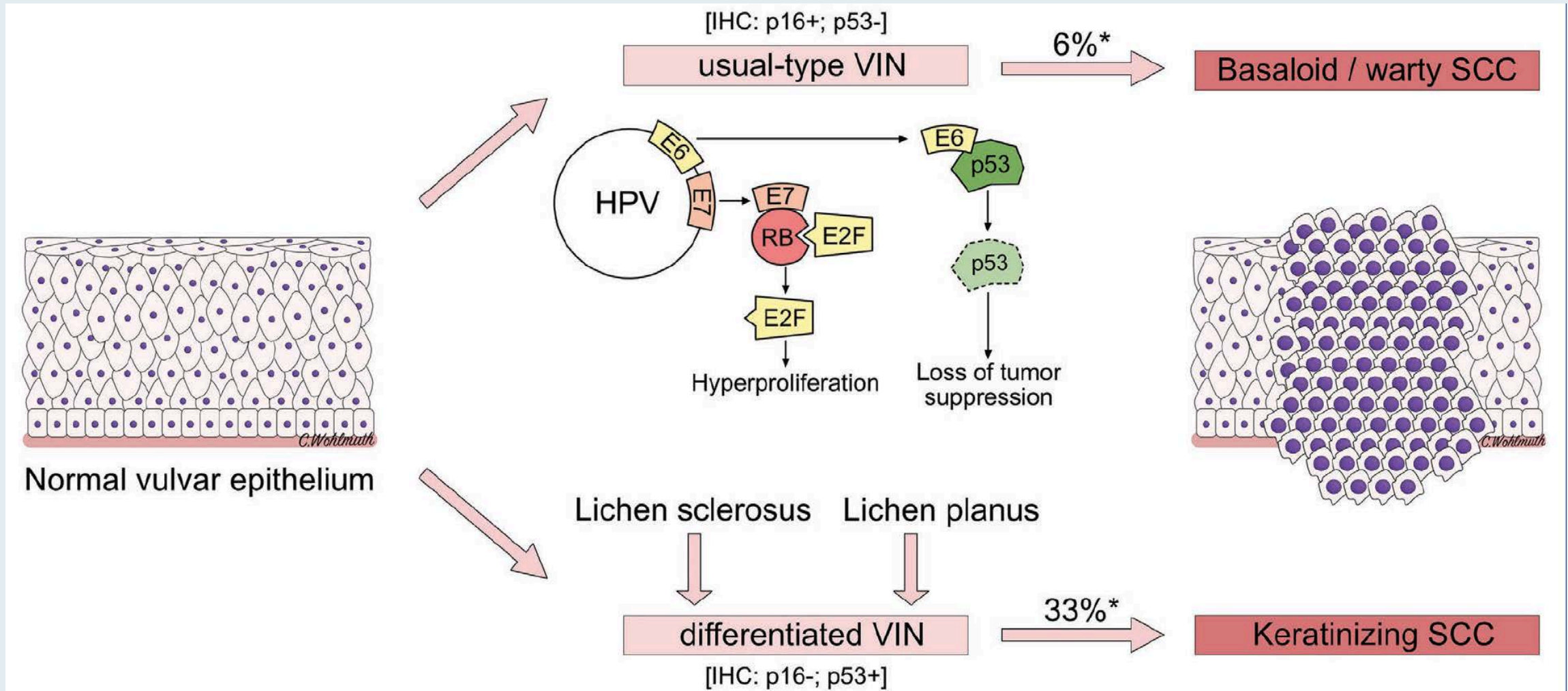
Conflict of interest

None.

Vulvar malignancies: an interdisciplinary perspective

Wohlmuth C, Wohlmuth-Wieser I. *J Dtsch Dermatol Ges* 2019;17(12):1257-76

Pathophysiology of Vulvar Intraepithelial Neoplasia (VIN) and Its Progression to SCC



Validation of Sentinel Lymph Biopsy in Patients with Early Stage Vulvar Cancer: A Prospective Trial of 1552 Women (GROINSS-V II/GOG270)

Slomovitz B et al.

SGO 2020;Abstract 2.

Radiotherapy as an Alternative Treatment for Inguinofemoral Lymphadenectomy in Vulvar Cancer Patients with a Metastatic Sentinel Node: Results of GROINSS-V II

van Der Zee AG et al.

SGO 2020;Abstract LBA 3.

Case Presentation – Dr Chen: A 63-year-old woman who presents with metastatic endometrial cancer



Dr Gigi Chen

- 7/2017: S/p robotic total hysterectomy, BSO, lysis of pelvic lesions
- Pathology: pT3aNx, with involvement of the mesorectal compartment (Stage IV)
 - Biopsy of mesorectal mass: Adenocarcinoma consistent with endometrial primary
 - Strongly positive for CK 7, ER; Negative for CK 20; MLH1 promotor hypermethylation
- Carboplatin/paclitaxel x 4 → PD
- 12/2017: Pembrolizumab, with CR
 - Hypothyroidism, on levothyroxine

Questions

- Can we stop the immunotherapy, since she has been on pembrolizumab for the past 2 years?
- If this patient presented today with MSI-H disease, what would be the best upfront treatment – chemotherapy or immunotherapy?

Case Presentation – Dr Chen: A 68-year-old woman with longstanding metastatic endometrial cancer



Dr Gigi Chen

- 2008: TAH/BOS → GOG-209 protocol: Carboplatin/paclitaxel
- Progressive lung disease → Carboplatin/liposomal doxorubicin x 2 → PD
- 9/2009 – 10/2013: Tamoxifen, with PD → Anastrozole x 2 months → PD
- Carboplatin/paclitaxel (carbo infusion reaction) → Paclitaxel monotherapy x 12
- 8/2014: Progression in retroperitoneal mass – RT to lymph nodes
- Cisplatin/gemcitabine x 6 (completed 5/2015) → Megestrol acetate → 4/2018: PD
- FoundationOne®: MSS, TMB 5 mut/Mb, AKT1, BCOR, CTNNB1, FGFR2 and PIK3R1
- Letrozole/everolimus x 2 years
- Currently, progression of disease in lung and abdomen

Questions

- Would pembrolizumab/lenvatinib be a good option, and if so, at what dose should I start the lenvatinib?

Case Presentation – Dr Matt-Amaral: A 66-year-old woman with high-grade papillary serous carcinoma



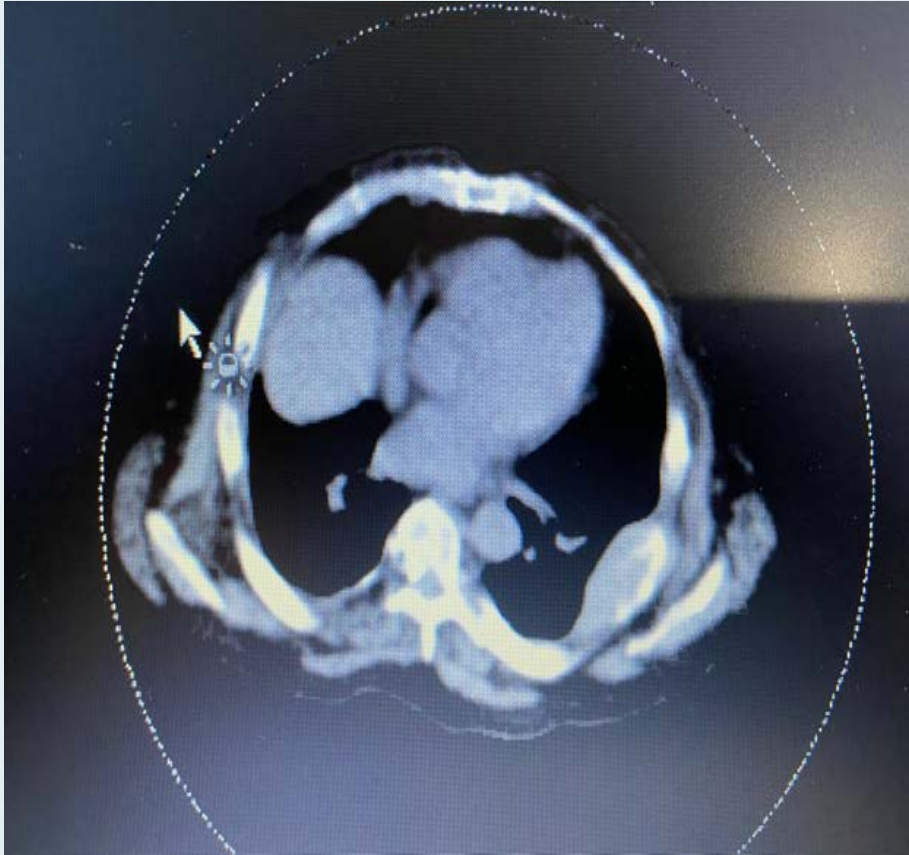
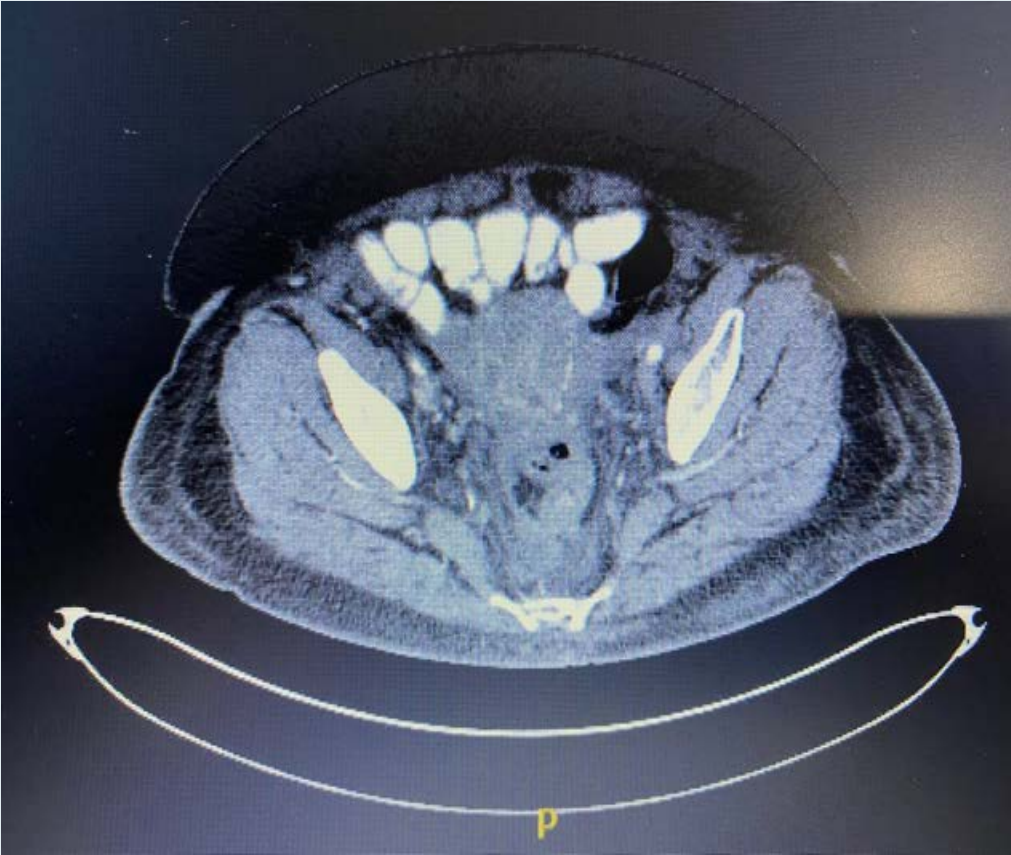
Dr Laurie Matt-Amaral

- High-grade papillary serous carcinoma, ER: 90%, MSS
 - CA125: >1200
- Neoadjuvant carboplatin/paclitaxel/bevacizumab, with PD after 5 cycles
- Pembrolizumab/lenvatinib (10 mg)
 - Preexisting hypertension exacerbated (now on 3-drug combination regimen with Cardiology)
 - CA125: 45

Questions

- Since she has had such a great response, would reducing the dose of lenvatinib to 5 mg still provide benefit?
- If dose reduce lenvatinib and her CA125 began rising, would they recommend going back up to 10 mg and then just dealing with the hypertension issues?

Case Presentation – Dr Matt-Amaral: A 66-year-old woman with high-grade papillary serous carcinoma



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MODULE 4: Key Recent Data Sets

Lancet Oncol 2019;20(3):383-93

Tisotumab vedotin in patients with advanced or metastatic solid tumours (InnovaTV 201): a first-in-human, multicentre, phase 1–2 trial



Johann S de Bono, Nicole Concin, David S Hong, Fiona C Thistlethwaite, Jean-Pascal Machiels, Hendrik-Tobias Arkenau, Ruth Plummer, Robert Hugh Jones, Dorte Nielsen, Kristian Windfeld, Srinivas Ghatta, Brian M Slomovitz, James F Spicer, Jeffrey Yachnin, Joo Ern Ang, Paul Morten Mau-Sørensen, Martin David Forster, Dearbhaile Collins, Emma Dean, Reshma A Rangwala, Ulrik Lassen

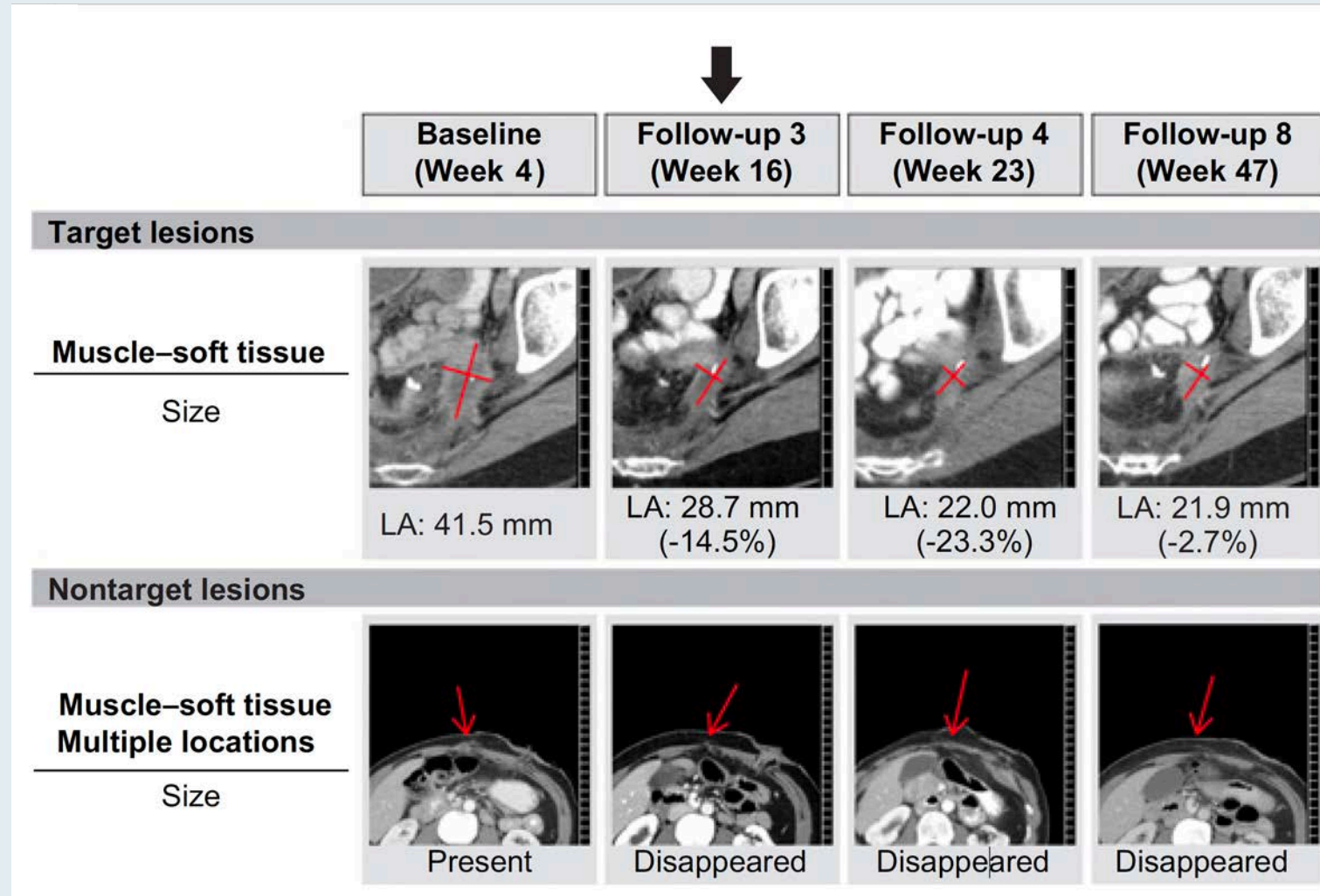
Tisotumab Vedotin in Previously Treated Recurrent or Metastatic Cervical Cancer **AC**



David S. Hong¹, Nicole Concin², Ignace Vergote², Johann S. de Bono³, Brian M. Slomovitz⁴, Yvette Drew⁵, Hendrik-Tobias Arkenau⁶, Jean-Pascal Machiels⁷, James F. Spicer⁸, Robert Jones⁹, Martin D. Forster¹⁰, Nathalie Cornez¹¹, Christine Gennigens¹², Melissa L. Johnson¹³, Fiona C. Thistlethwaite¹⁴, Reshma A. Rangwala¹⁵, Srinivas Ghatta¹⁶, Kristian Windfeld¹⁷, Jeffrey R. Harris¹⁸, Ulrik Niels Lassen¹⁹, and Robert L. Coleman²⁰

Clin Cancer Res 2020;26(6):1220-8

Target and Nontarget Lesion Scans at Baseline and Follow-up Visits for a 43-Year-Old Female with Squamous Cell Carcinoma Previously Treated with Paclitaxel and Carboplatin



Weeks are measured from cycle 1 day 1 of tisetumab vedotin. The patient achieved a PR and discontinued tisetumab vedotin due to an adverse event at week 16 (black arrow).

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.

**A Randomised Double-Blind Placebo-Controlled
Phase II Trial of Palbociclib Combined with Letrozole
(L) in Patients (pts) with Oestrogen Receptor-Positive
(ER+) Advanced/Recurrent Endometrial Cancer (EC):
NSGO-PALEO/ENGOT-EN3 Trial**

Mirza MR et al.

ESMO 2020;Abstract LBA28.

ENGOT-EN6/NSGO-RUBY: A Phase III, Randomized, Double-Blind, Multicenter Study of Dostarlimab + Carboplatin-Paclitaxel versus Placebo + Carboplatin-Paclitaxel in Recurrent or Primary Advanced Endometrial Cancer (EC)

Mirza MR et al.

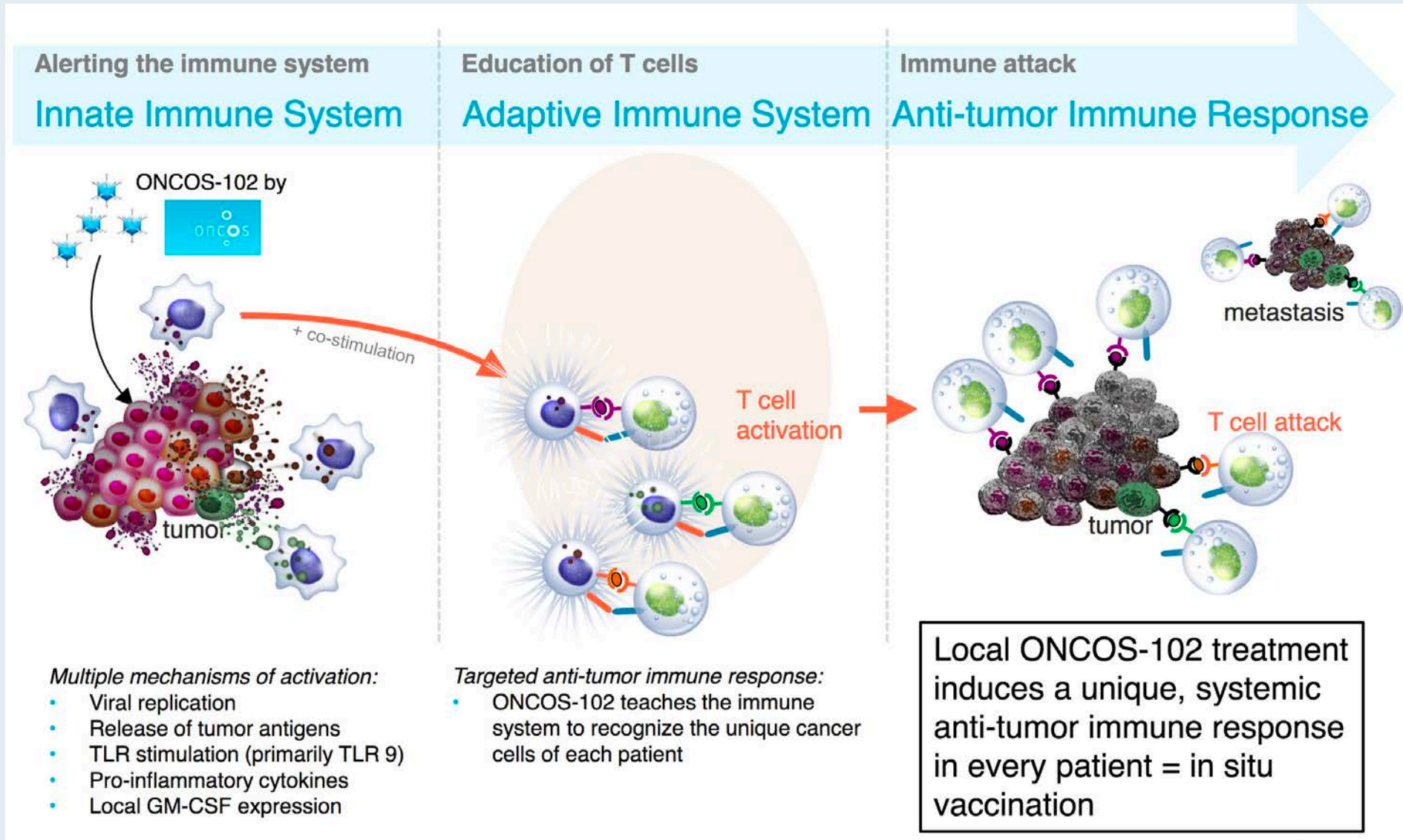
ASCO 2020;Abstract TPS6107.

Phase I/II Study to Evaluate Systemic Durvalumab + Intraperitoneal (IP) ONCOS-102 in Patients with Peritoneal Disease Who Have Epithelial Ovarian (OC) or Metastatic Colorectal Cancer (CRC): Interim Phase I Clinical and Translational Results

Zamarin D et al.

ASCO 2020;Abstract 3017.

ONCOS-102 Effectively Activates the Immune System



Safety and Efficacy of Adoptive Cell Transfer Using Autologous Tumor Infiltrating Lymphocytes (LN-145) for Treatment of Recurrent, Metastatic, or Persistent Cervical Carcinoma

Jazaeri AA et al.

ASCO 2019;Abstract 2538.

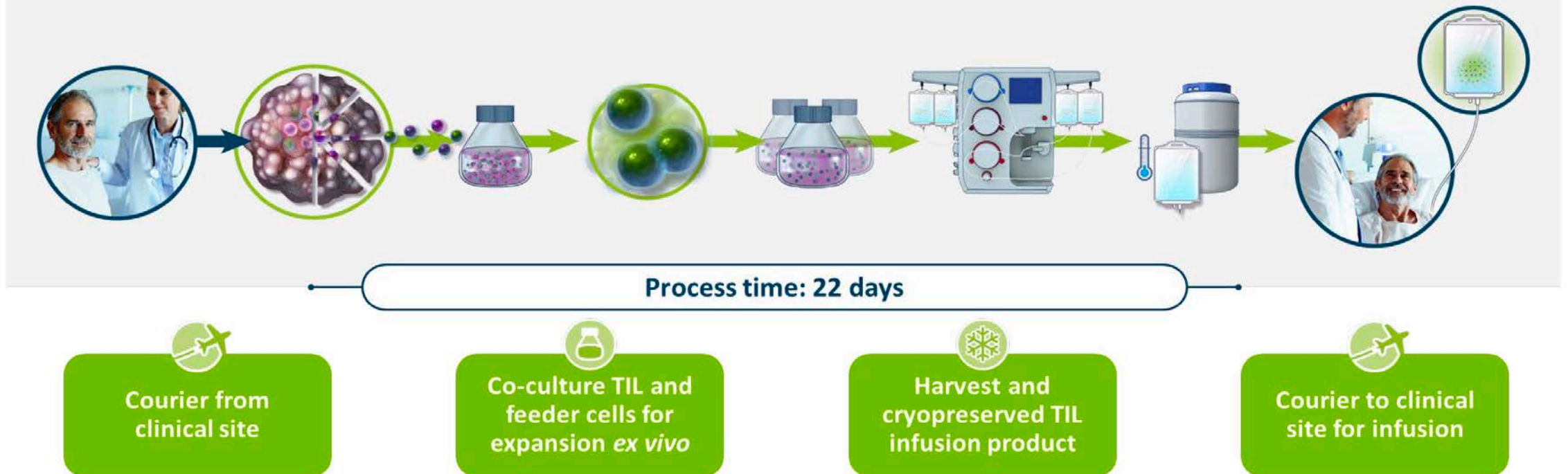
Cryopreserved Autologous TIL (LN-145)

EXCISE: Patient's tumor is removed via surgical resection of a lesion

EXTRACT: Tumor is fragmented and placed in media for TIL to leave the tumor and enter media

EXPAND: TIL expanded via IL-2 + OKT3 exponentially *ex vivo* to yield $10^9 - 10^{11}$ TIL

PREPARE & INFUSE: Patient receives non-myeloablative lymphodepletion and is infused with their expanded TIL and IL-2



Meet The Professor with Dr Slomovitz

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- Dr Rupard: A 72-year-old woman with vulvar squamous cell carcinoma
- Dr Chen: A 63-year-old woman who presents with metastatic endometrial cancer
- Dr Chen: A 68-year-old woman with longstanding metastatic endometrial cancer
- Dr Matt-Amaral: A 66-year-old woman with high-grade papillary serous carcinoma

MODULE 2: Gynecologic Oncology Journal Club with Dr Slomovitz

- State of the Science in low-grade serous ovarian cancer (OC)
- Variations in practice patterns in low-grade serous OC
- Tisotumab vedotin in metastatic solid tumors and cervical cancer
- NSGO-PALEO trial: Palbociclib/letrozole in ER-positive advanced/recurrent endometrial cancer
- Ongoing Phase III RUBY study of dostarlimab plus chemotherapy for recurrent endometrial cancer
- Vulvar malignancies: An interdisciplinary perspective
- GOG-270: Validation of sentinel lymph node biopsy for patients with early-stage vulvar cancer
- Radiation therapy as an alternative treatment for inguinofemoral lymphadenectomy in vulva cancer
- Durvalumab plus intraperitoneal ONCOS-102 in patients with OC or CRC with peritoneal disease
- Adoptive cell transfer using autologous tumor infiltrating lymphocytes (LN-145) for cervical cancer

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

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 MSI-high metastatic endometrial cancer who experienced disease progression on carboplatin/paclitaxel?

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










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

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










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

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

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

 MICHAEL J BIRRER, MD, PHD	Cisplatin/paclitaxel/bevacizumab
 ROBERT L COLEMAN, MD	Cisplatin/paclitaxel/bevacizumab
 ANA OAKNIN, MD, PHD	Carboplatin/paclitaxel
 DAVID M O'MALLEY, MD	Cisplatin/paclitaxel/bevacizumab
 RICHARD T PENSON, MD, MRCP	Cisplatin/paclitaxel/bevacizumab
 MATTHEW A POWELL, MD	Cisplatin/paclitaxel/bevacizumab
 BRIAN M SLOMOVITZ, MD	Cisplatin/paclitaxel/bevacizumab
 KRISHNANSU S TEWARI, MD	Cisplatin/paclitaxel/bevacizumab
 PROFESSOR IGNACE VERGOTE	Carboplatin/paclitaxel/bevacizumab

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

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

CPS = combined positive score

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

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

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



MICHAEL J BIRRER, MD, PHD

Pembrolizumab



ROBERT L COLEMAN, MD

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



ANA OAKNIN, MD, PHD

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



DAVID M O'MALLEY, MD

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



RICHARD T PENSON, MD, MRCP

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



MATTHEW A POWELL, MD

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



BRIAN M SLOMOVITZ, MD

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



KRISHNANSU S TEWARI, MD

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



PROFESSOR IGNACE VERGOTE

Tisotumab vedotin

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

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

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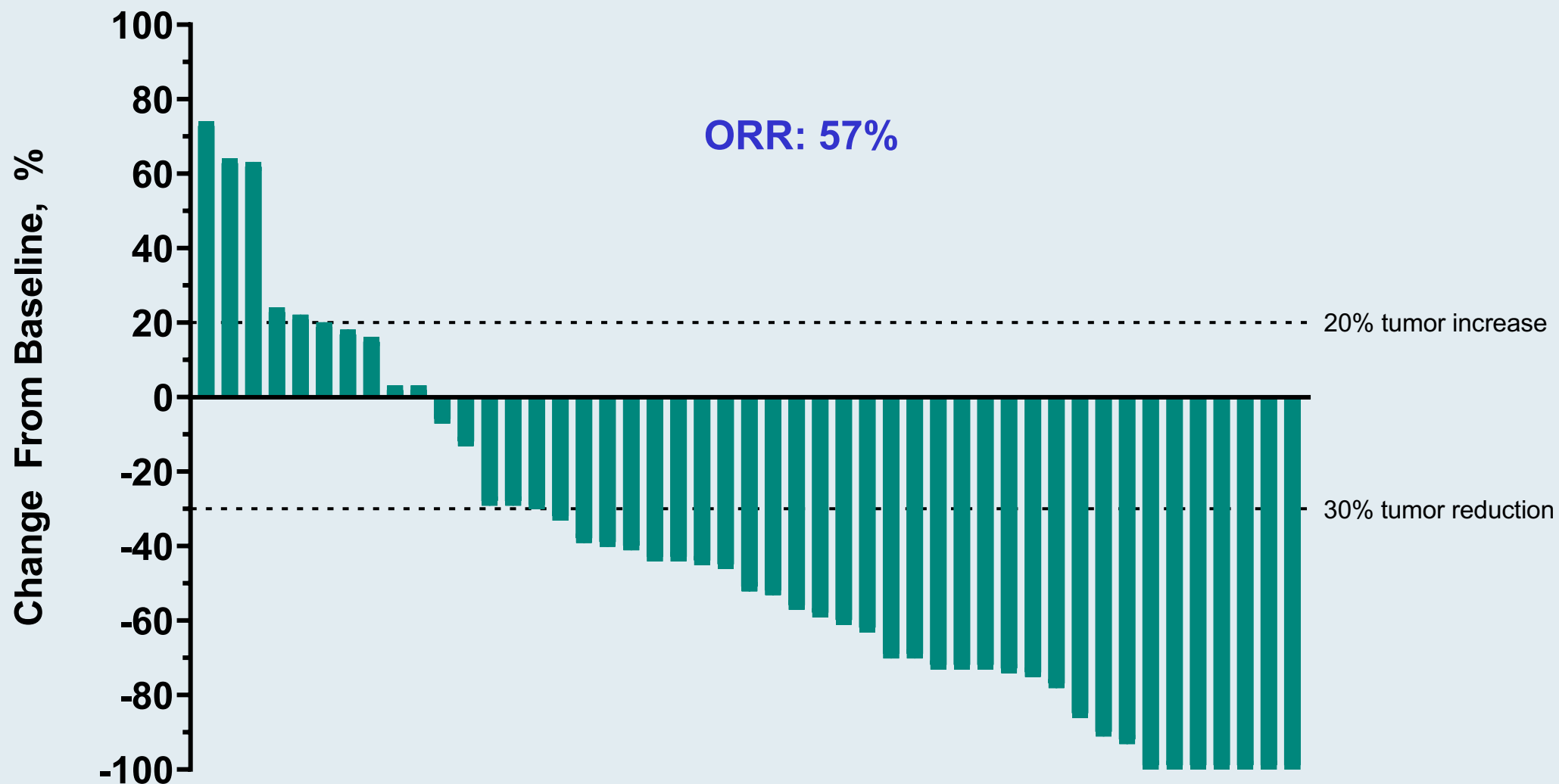
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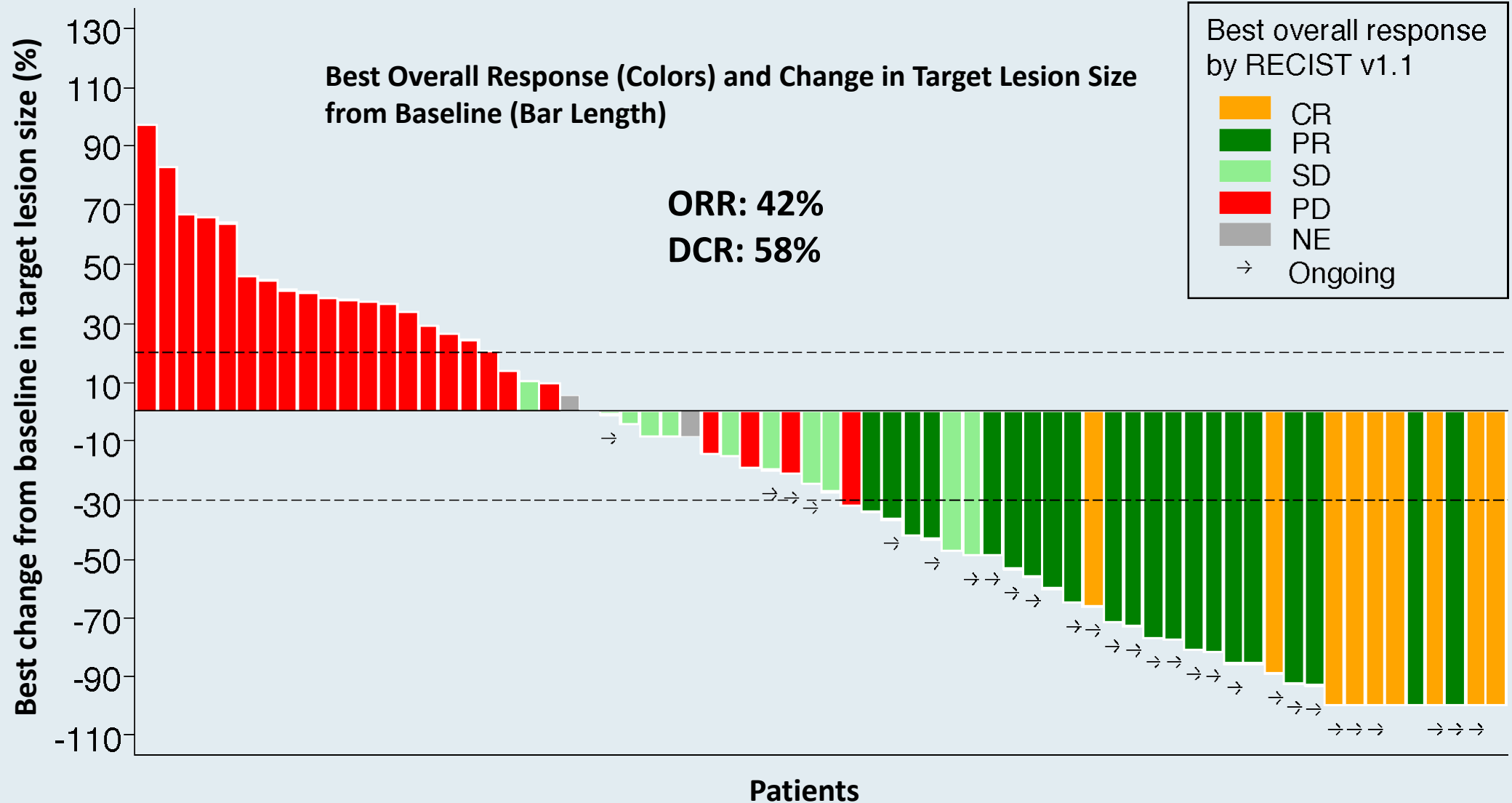
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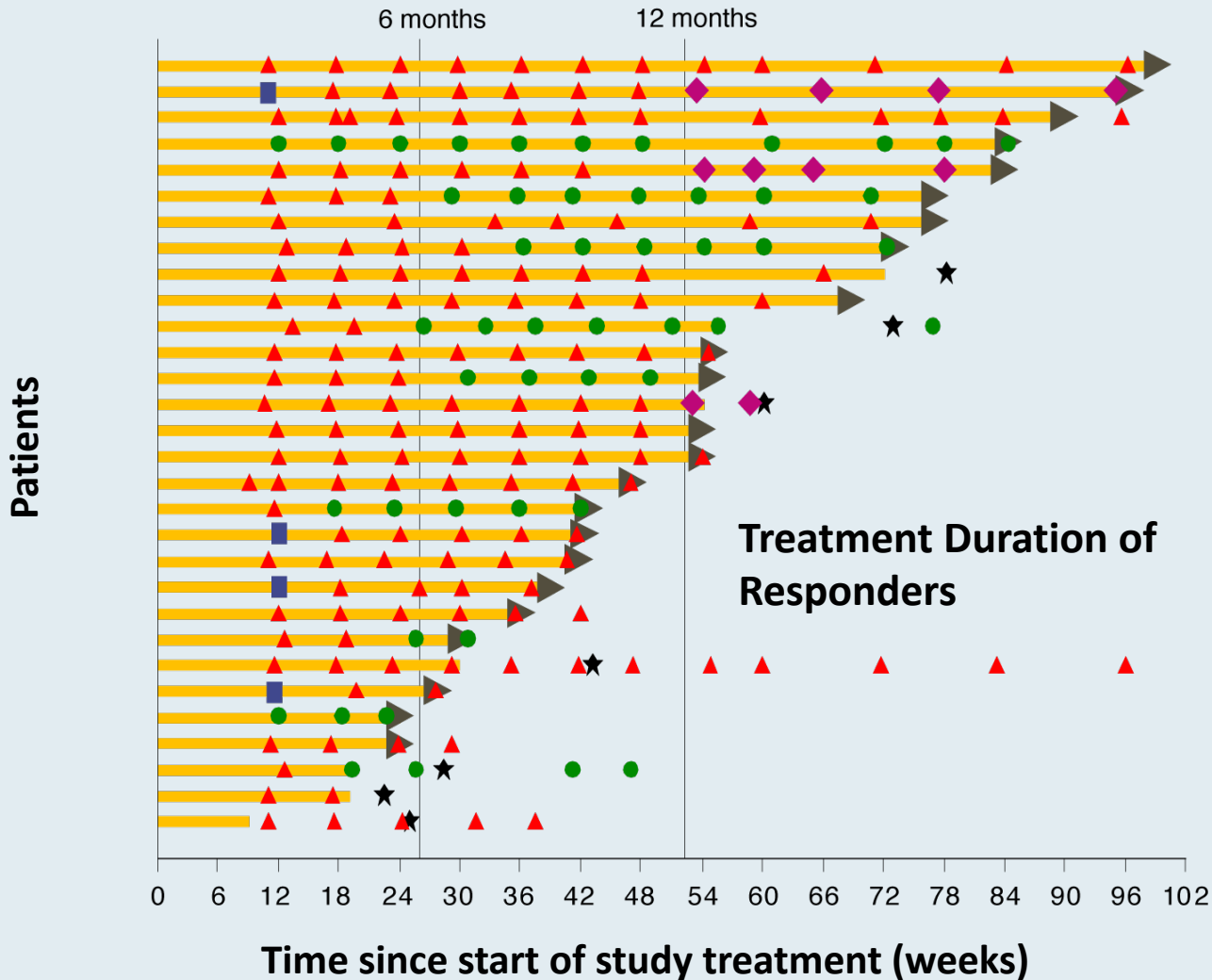
KEYNOTE-158: Best Percentage Change from Baseline in Target Lesion Size with Pembrolizumab Monotherapy in MSI-H Endometrial Cancer



GARNET: Dostarlimab in Recurrent or Advanced dMMR Endometrial Cancer



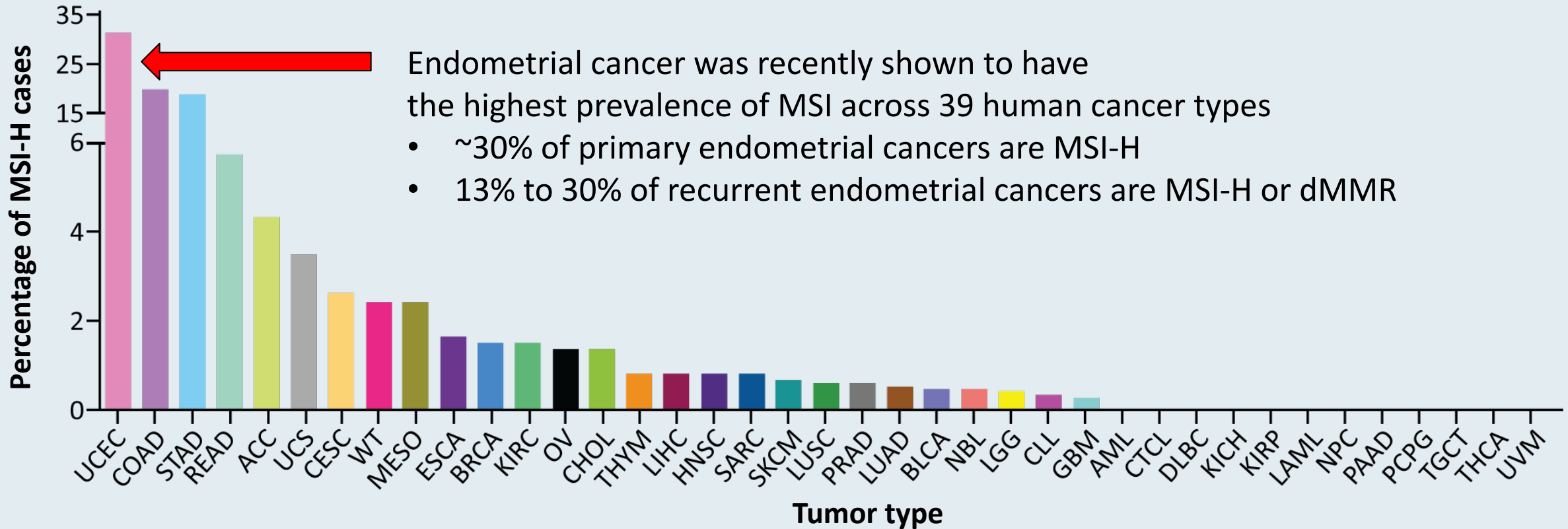
GARNET: Dostarlimab in Recurrent or Advanced dMMR Endometrial Cancer



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

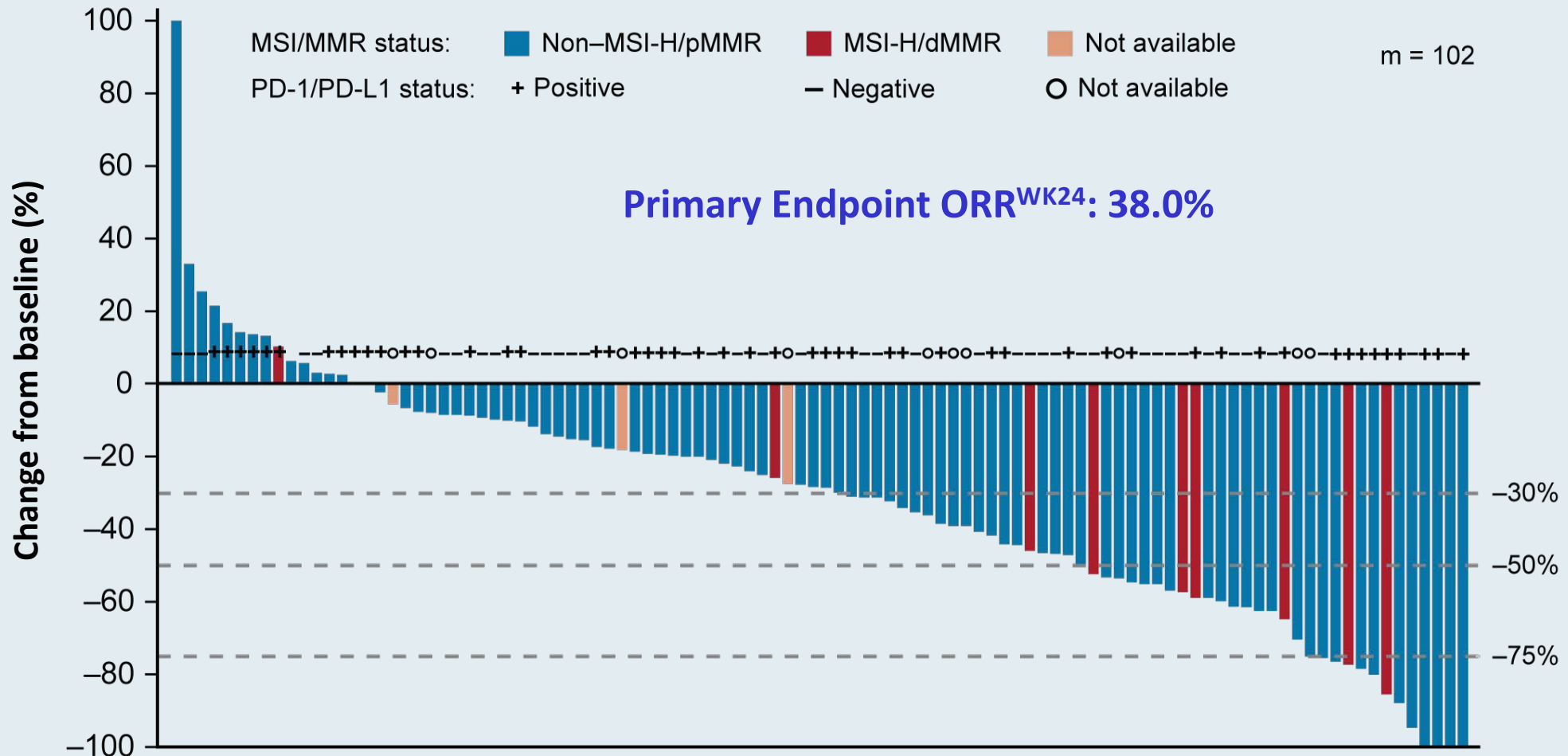
MSI-High Across 39 Cancer Types

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

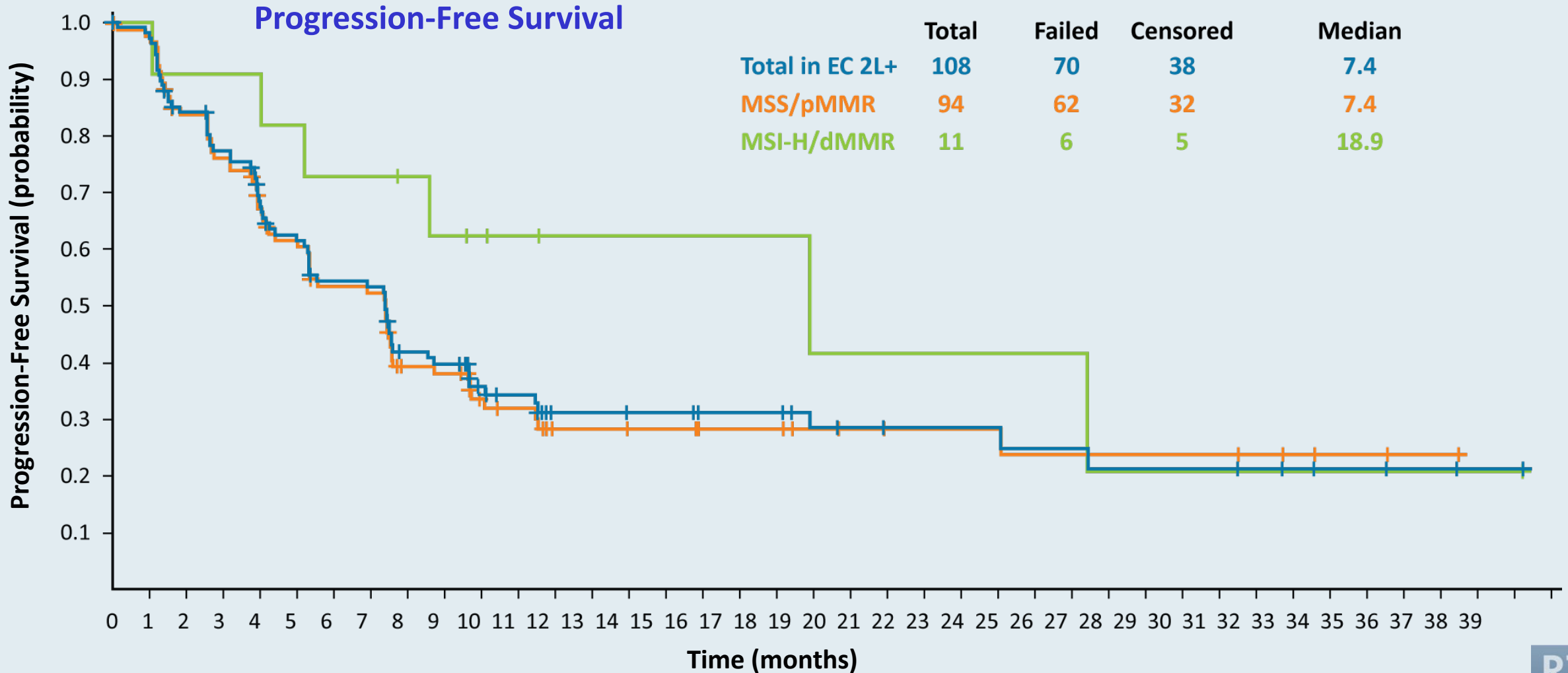


UCEC = uterine corpus endometrial carcinoma

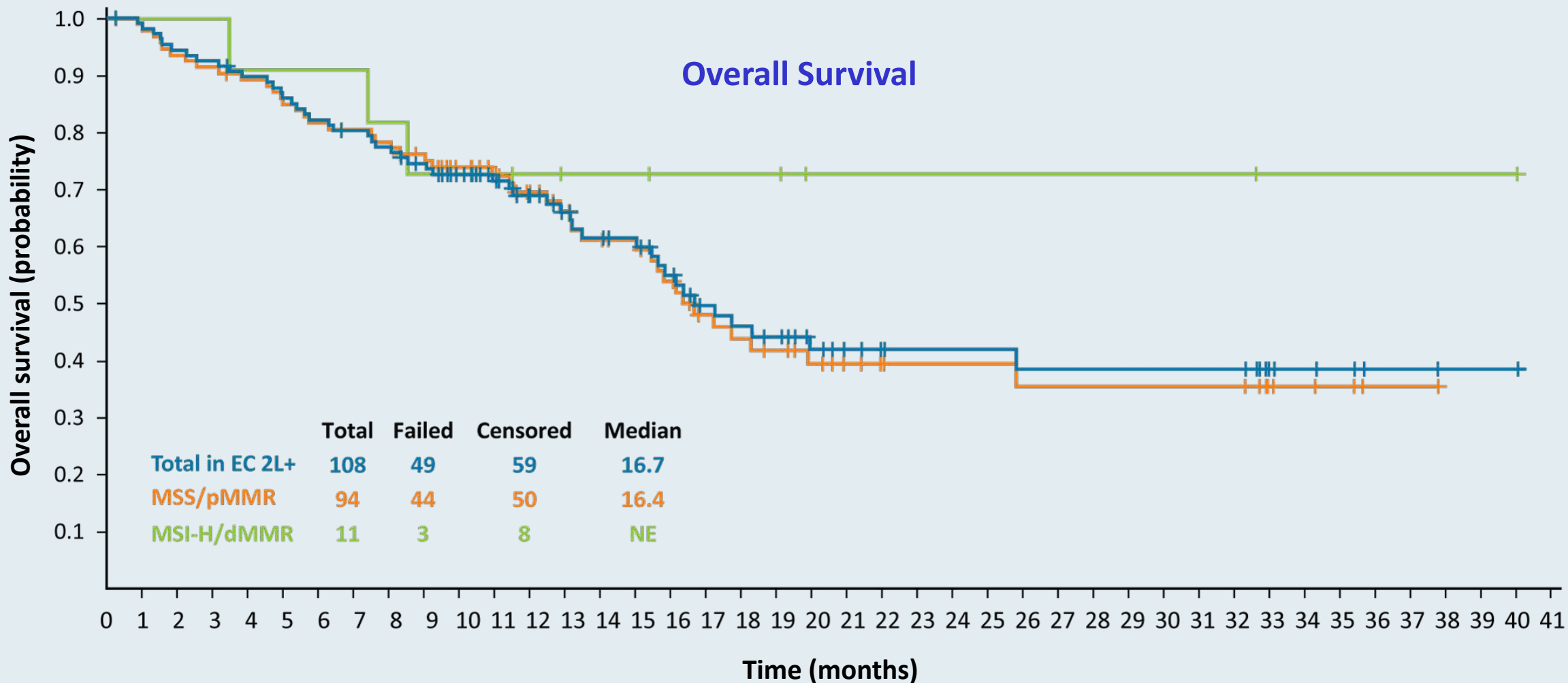
KEYNOTE-146: Pembrolizumab/Lenvatinib in Advanced Endometrial Cancer That Is Not MSI-H or dMMR After Disease Progression on Prior Systemic Therapy



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

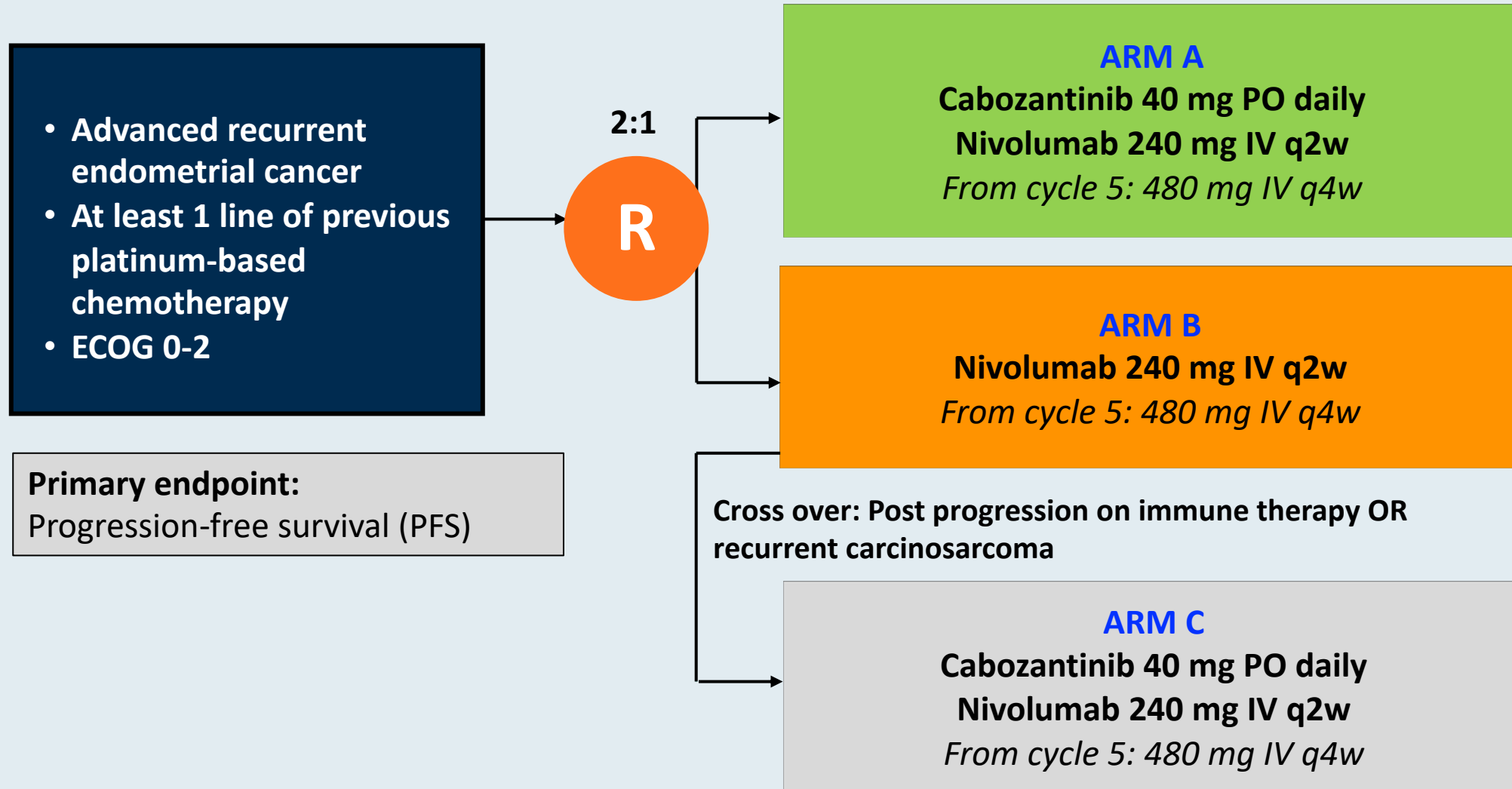


NCI 10104: A Randomized Phase 2 Study of Cabozantinib in Combination with Nivolumab in Advanced, Recurrent Metastatic Endometrial Cancer

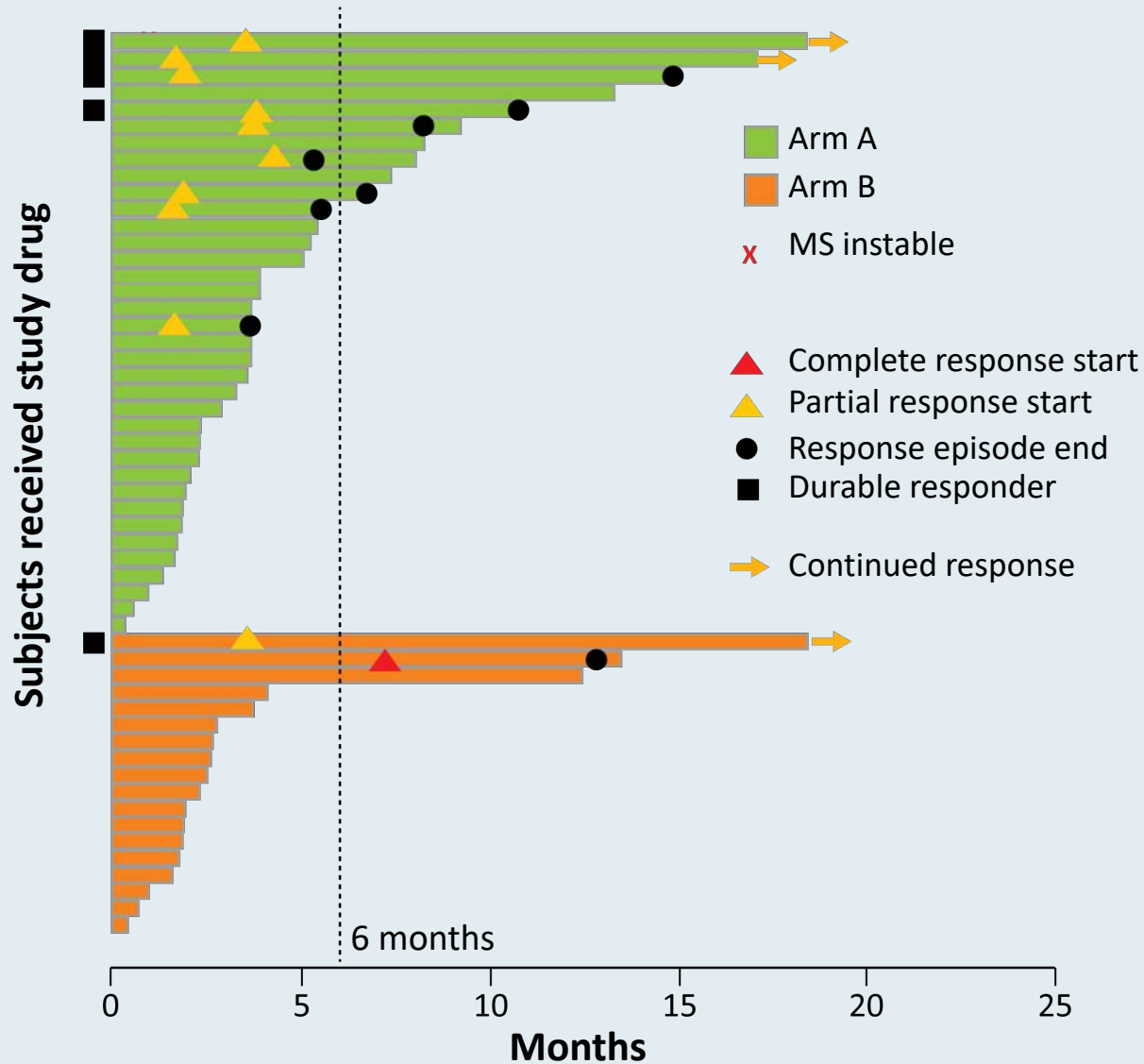
Lheureux S et al.

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

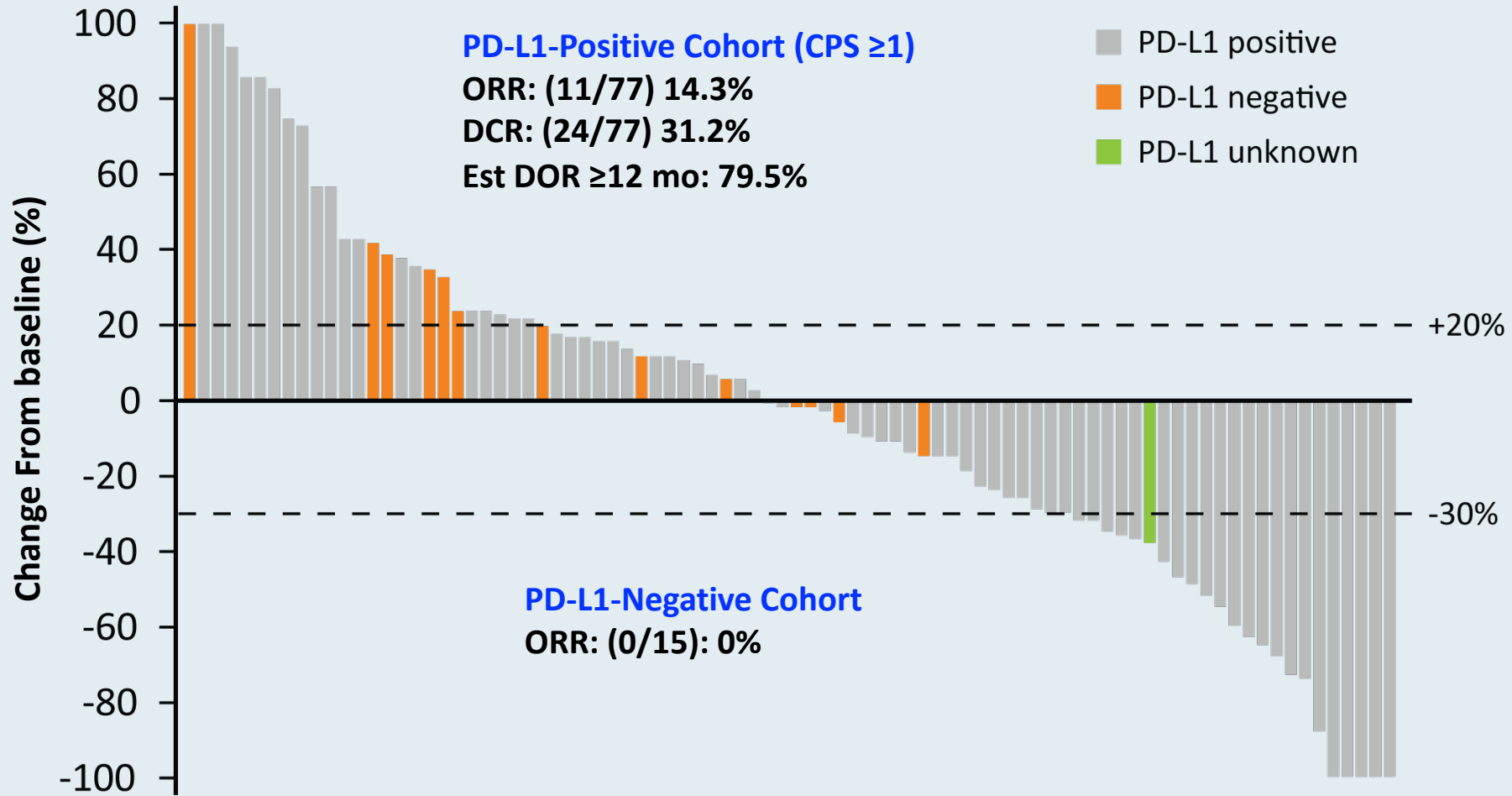
[†] Immature, 55% events

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

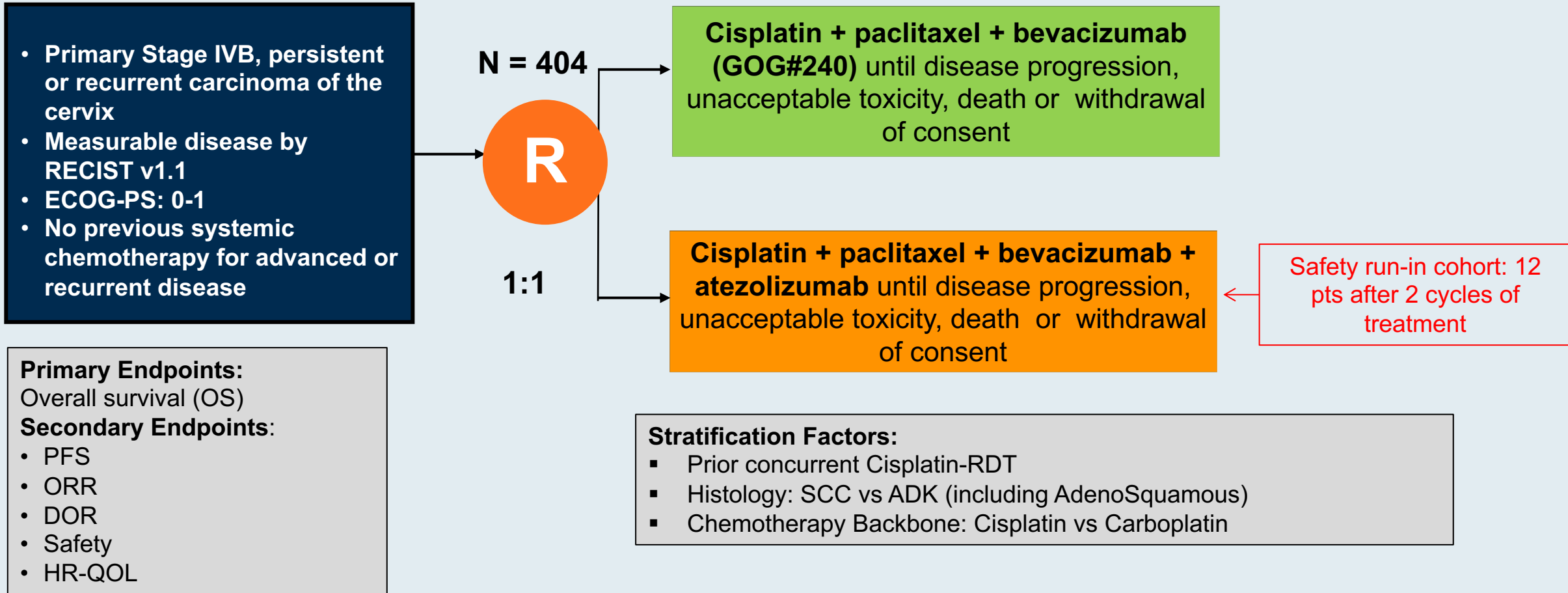
Anti-PD-1/PD-L1 Antibodies in Cervical Cancer

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

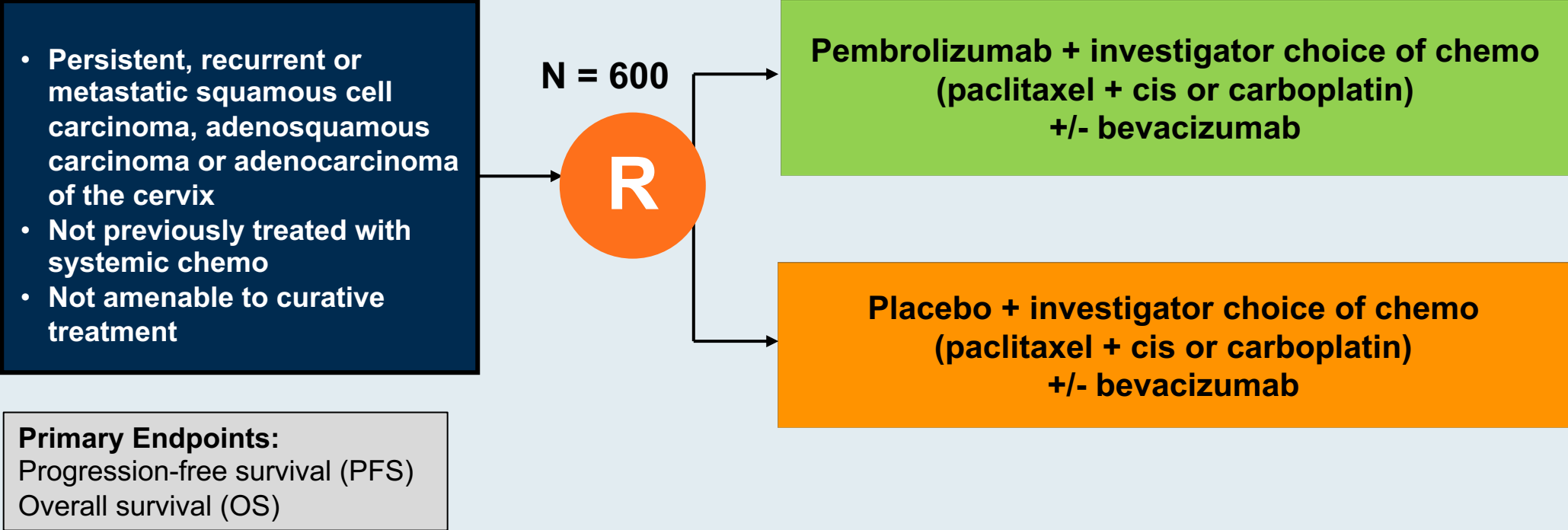


Combined Positive Score (CPS) = PD-L1+ cells (tumor cells, lymphocytes, macrophages) / Total number of tumor cells x 100

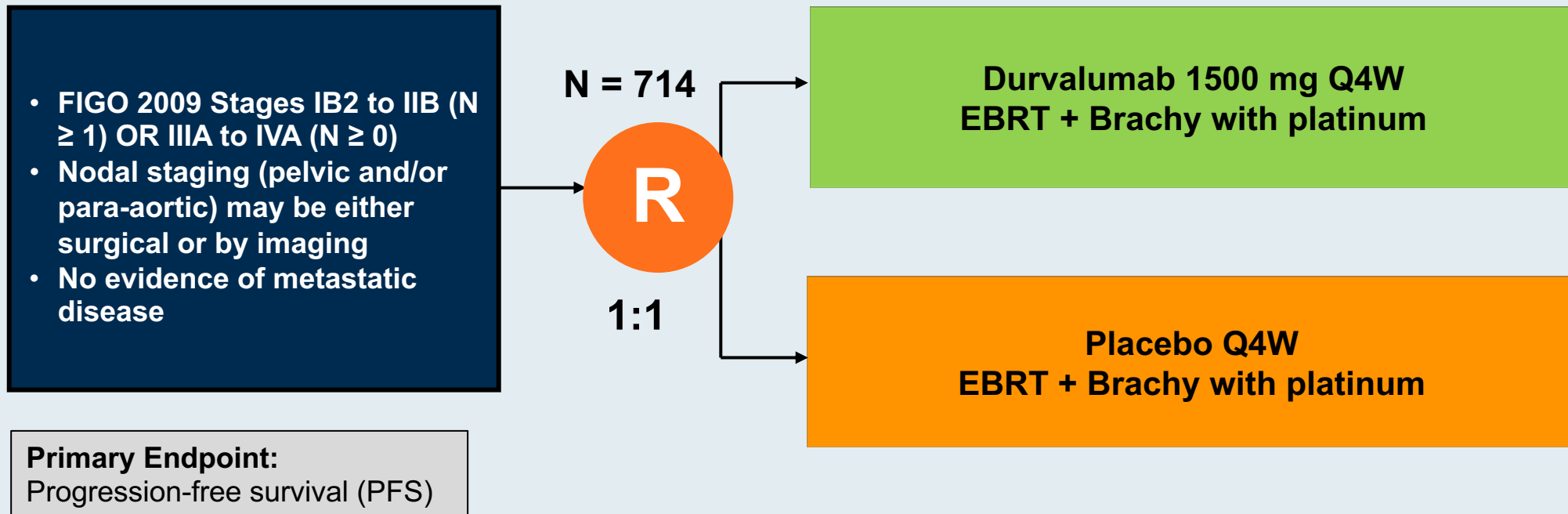
BEATcc Phase III Randomized Front-Line Trial of Atezolizumab



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

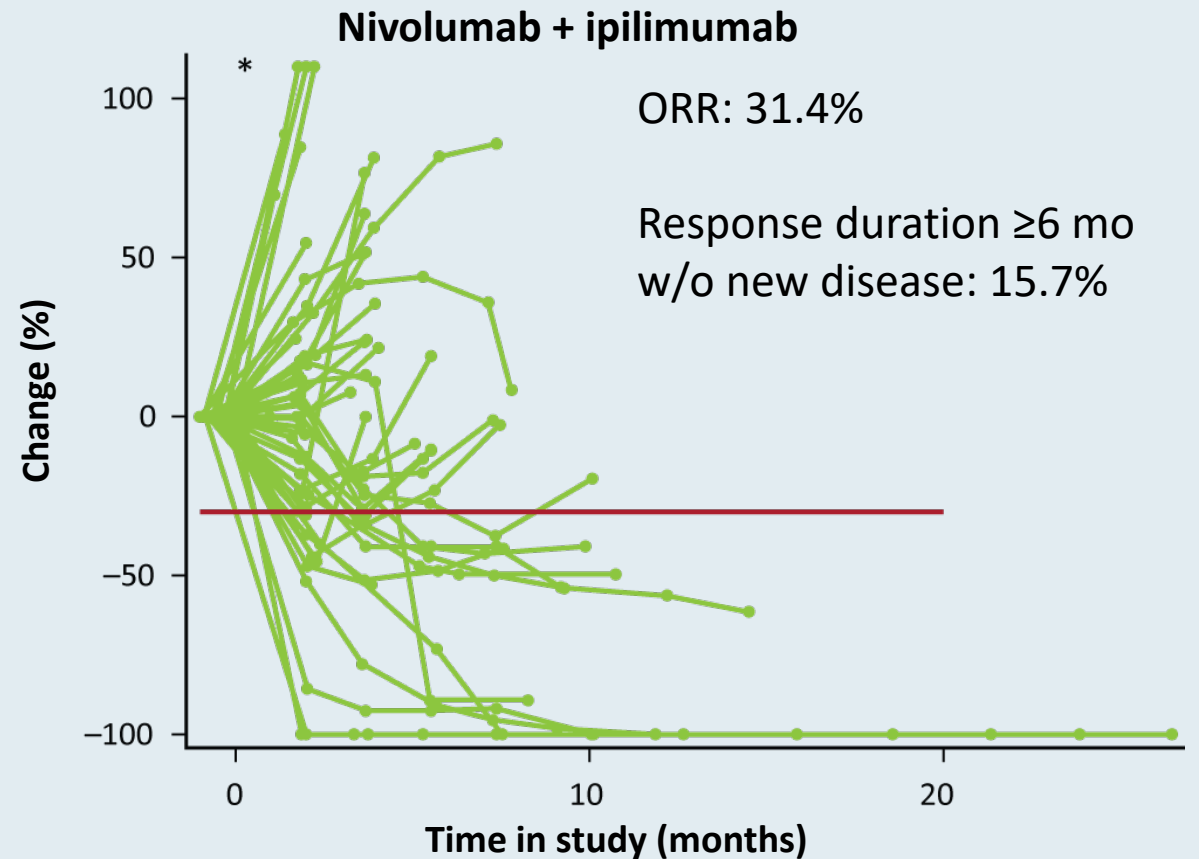
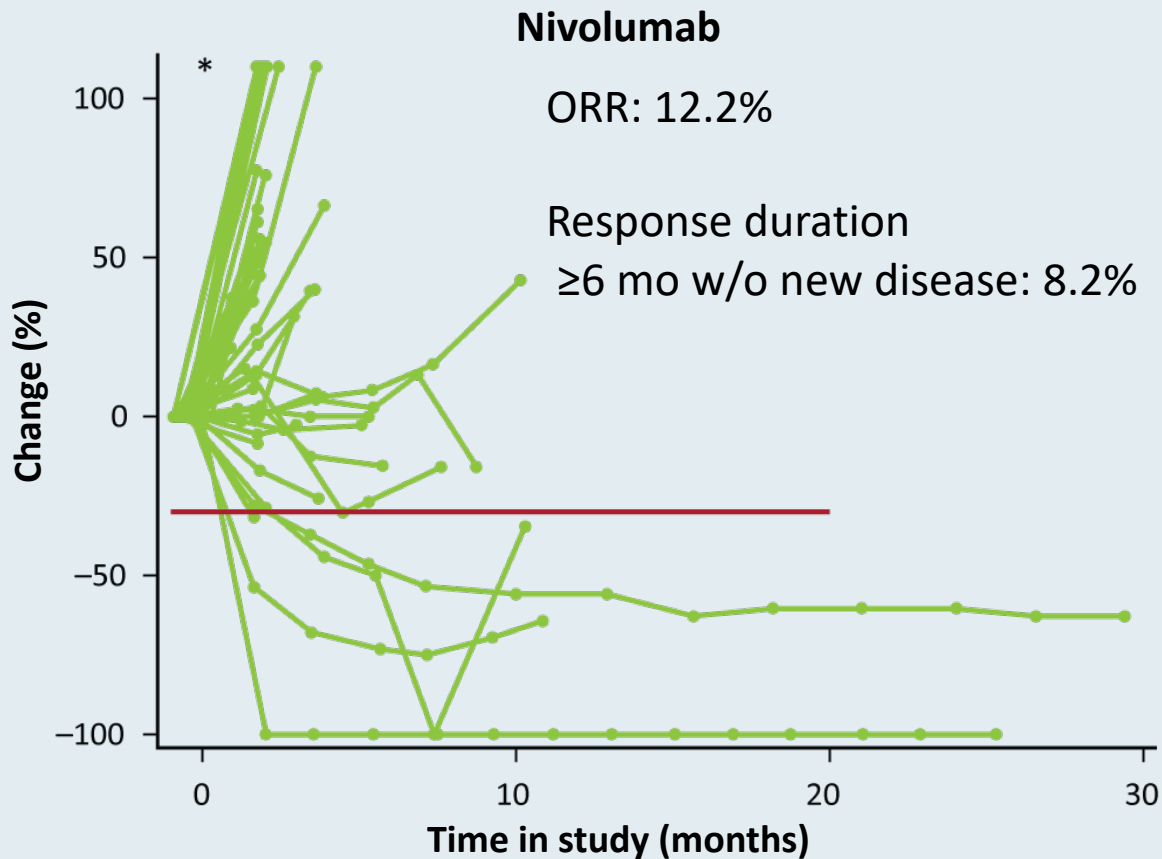
Endpoint	Cohort A 1-3 prior lines PFI/TFI 3-12 months			Cohort B 4-6 prior lines PFI/TFI ≥3 months			Cohorts A + B All comers		
	All n = 285	CPS ≥1 n = 101	CPS ≥10 n =43	All n = 91	CPS ≥1 n = 49	CPS ≥10 n = 22	All n = 376	CPS ≥1 n = 150	CPS ≥10 n = 65
ORR	8.1%	6.9%	11.6%	9.9%	10.2%	18.2%	8.5%	8.0%	13.8%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

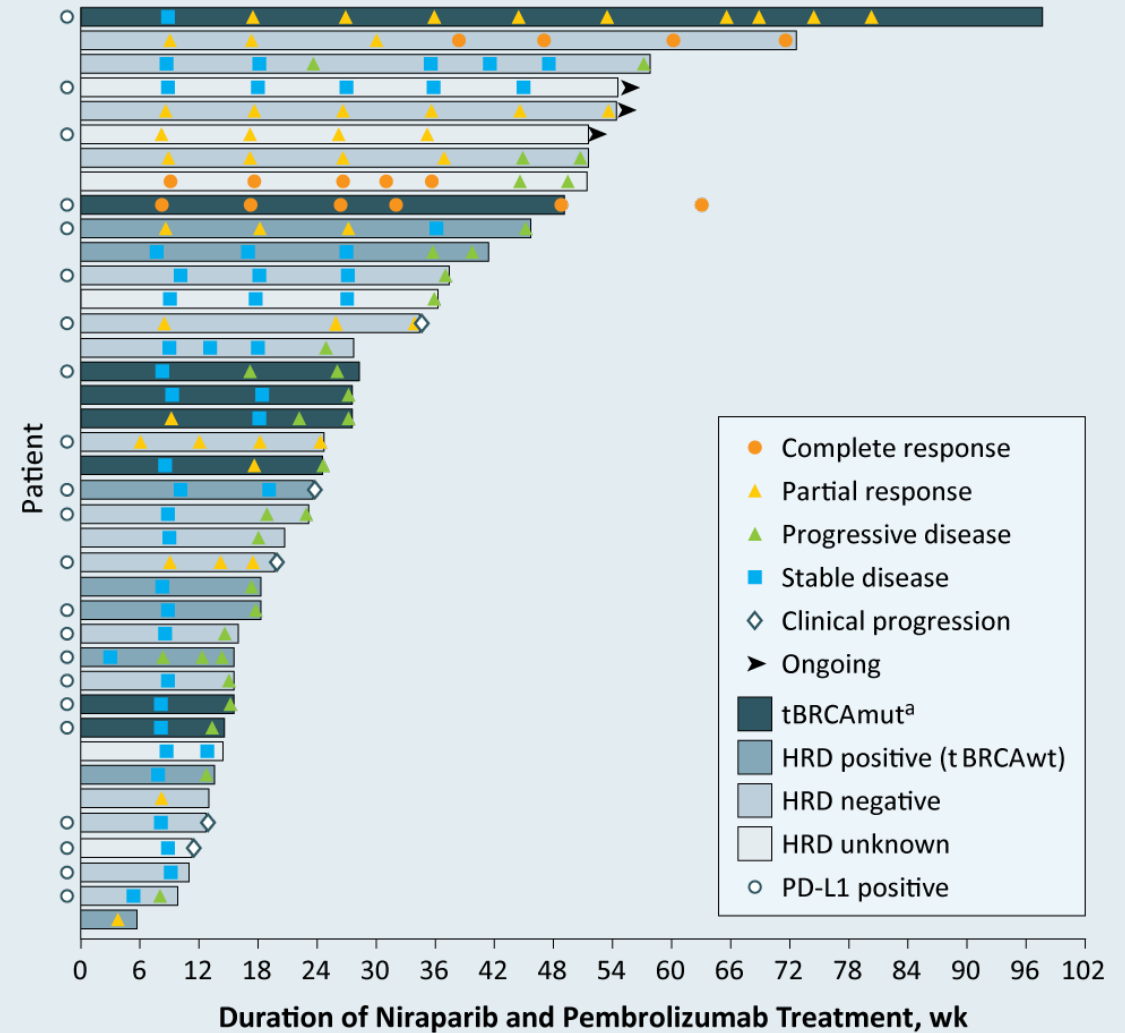
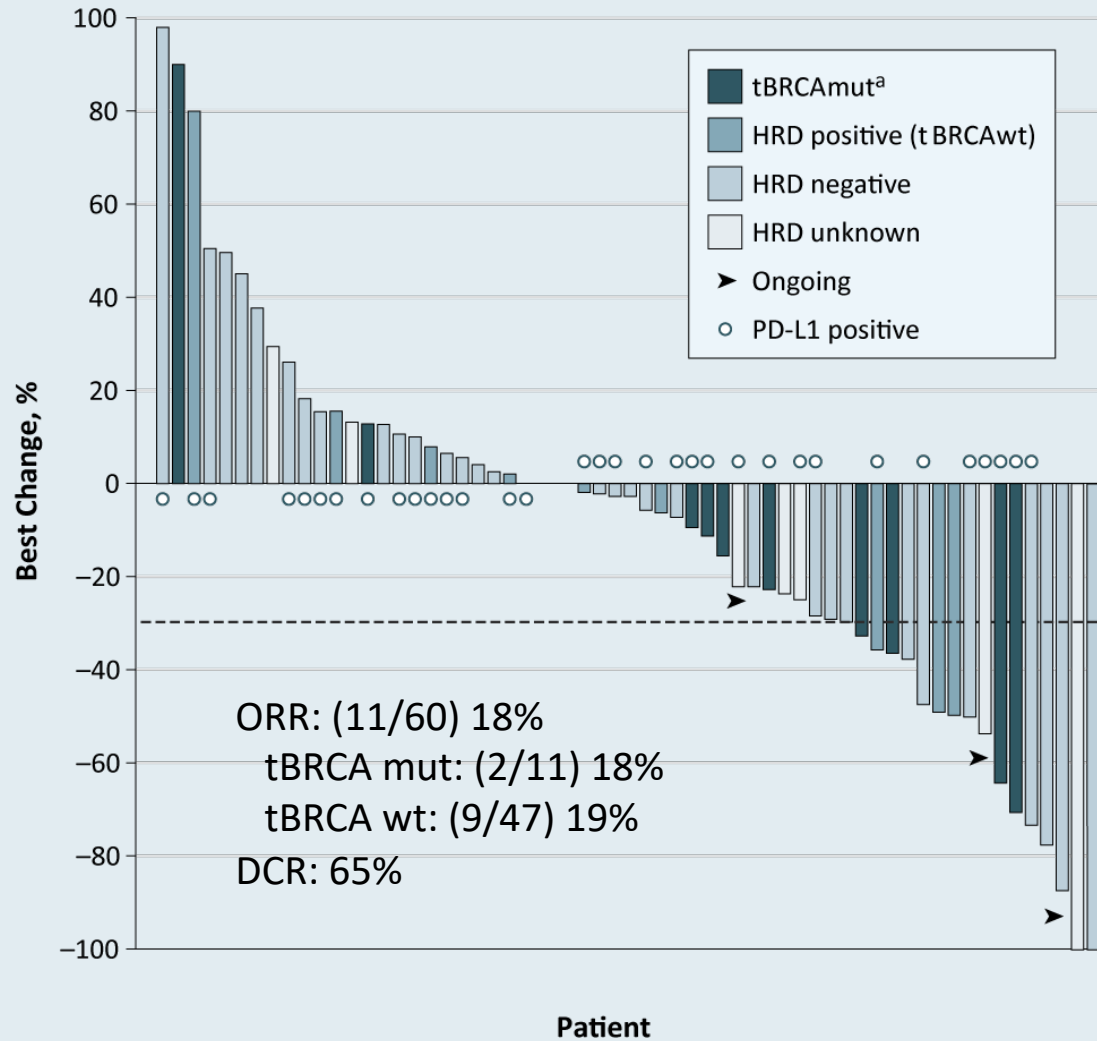
NRG GY003 Phase II Study of Nivolumab with or without Ipilimumab in Recurrent or Persistent OC

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

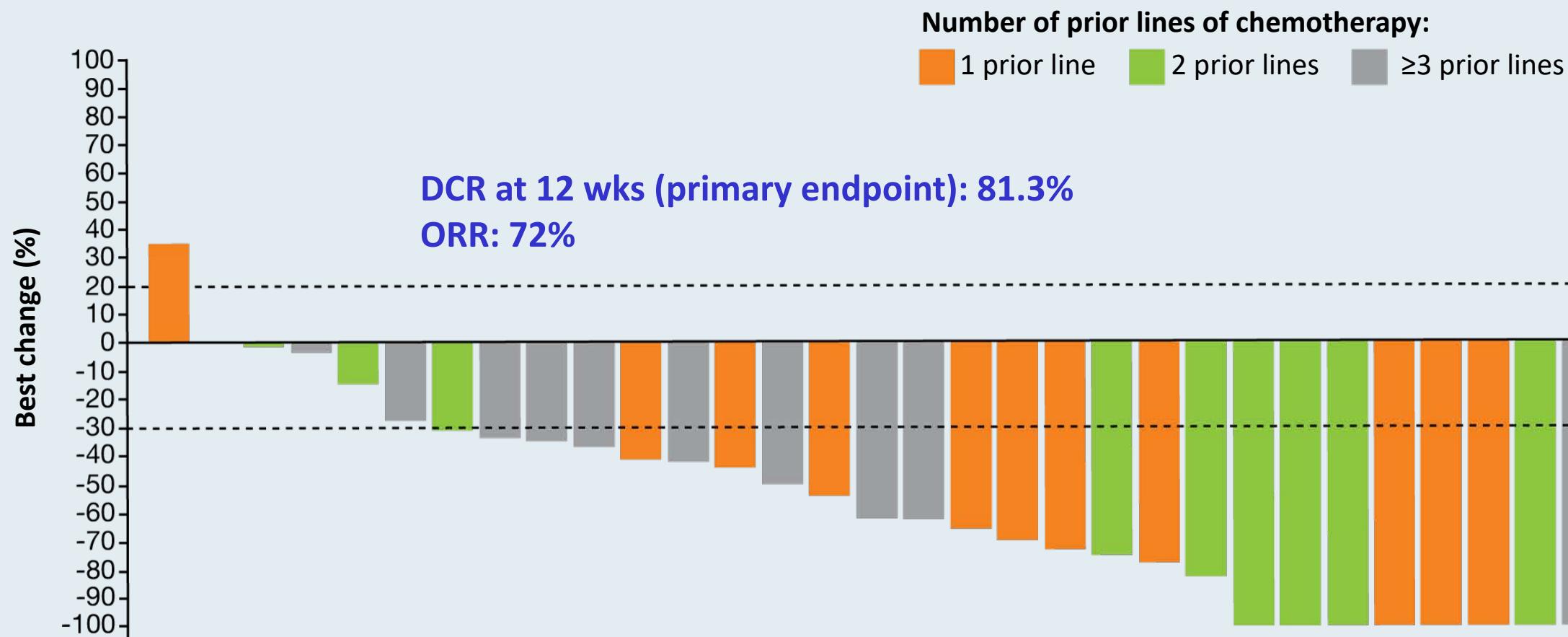


PD-L1 expression was not significantly associated with response in either treatment group

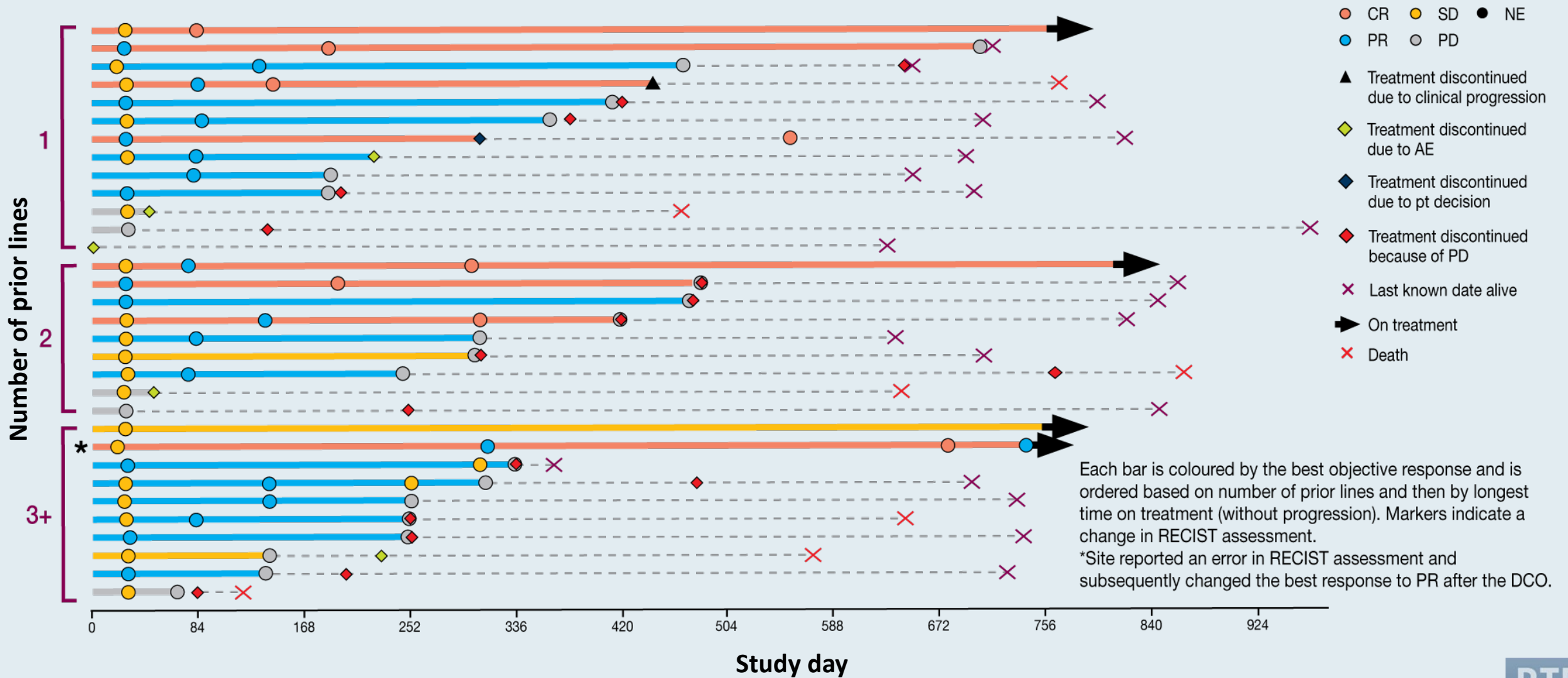
TOPACIO/KEYNOTE-162: Niraparib and Pembrolizumab in Recurrent Platinum-Resistant Ovarian Cancer



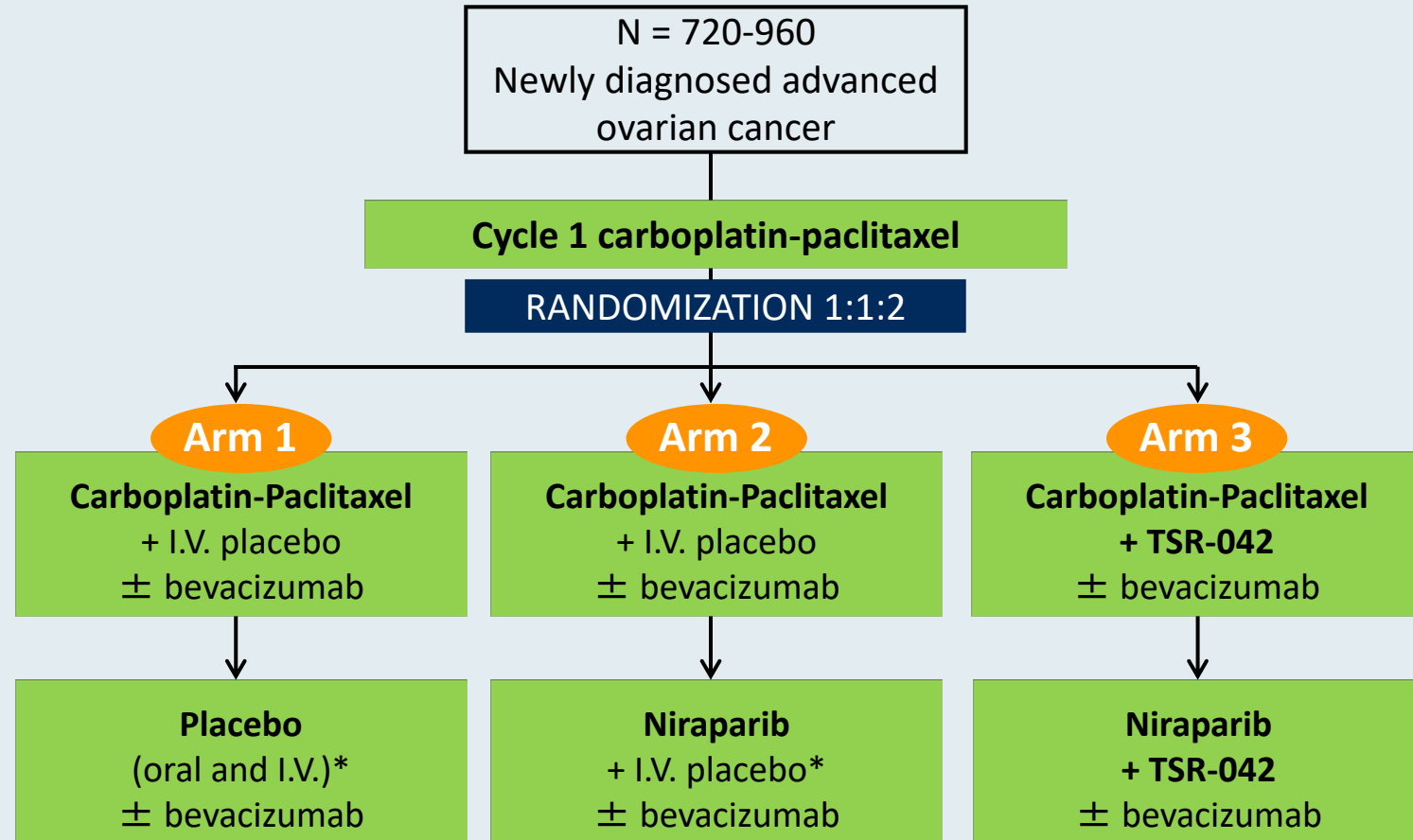
MEDIOLA: A Phase II Study of Olaparib and Durvalumab in gBRCA-Mutated Platinum-Sensitive Relapsed OC



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

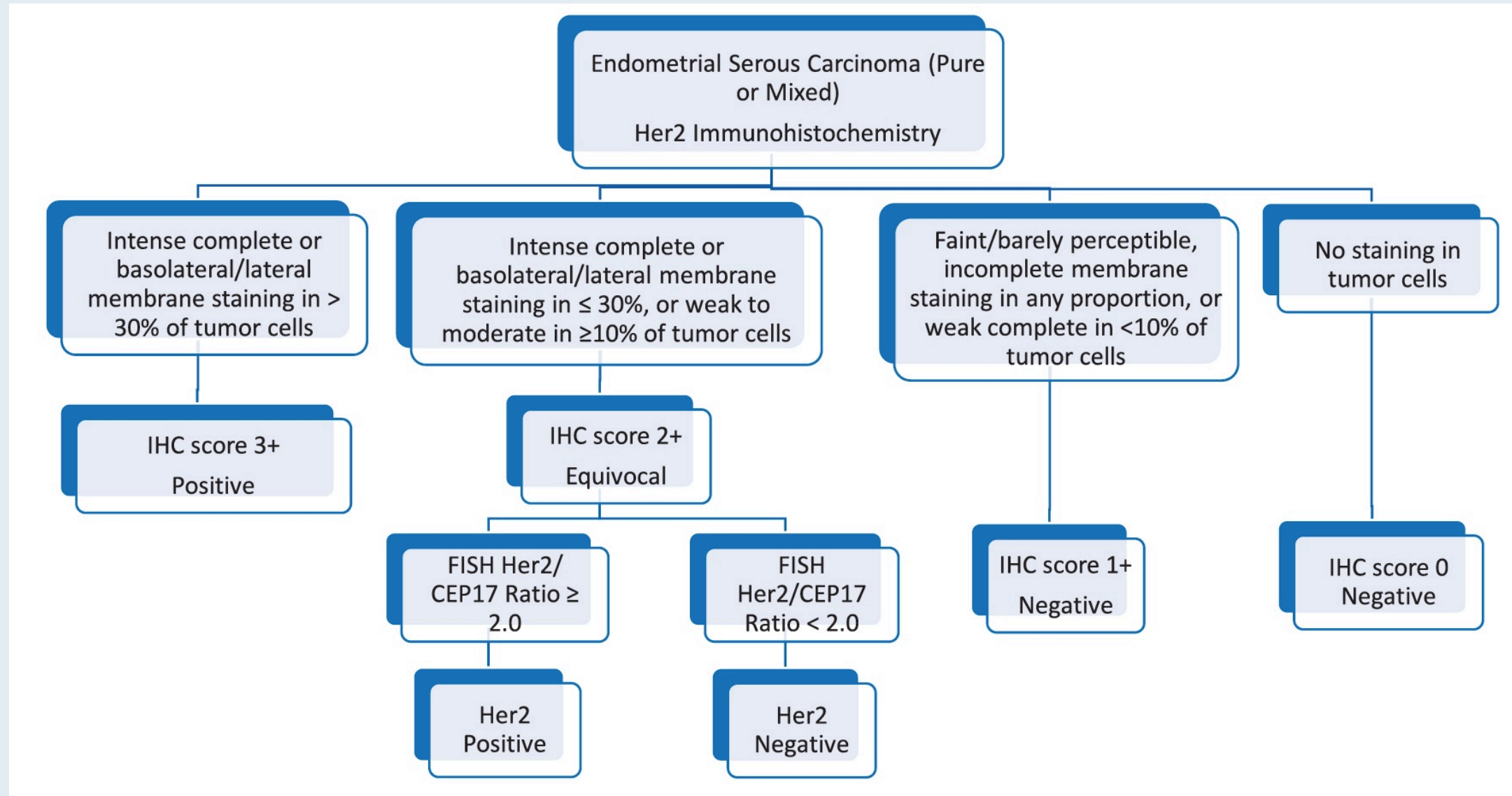
HER2 Testing in Endometrial Serous Carcinoma

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.

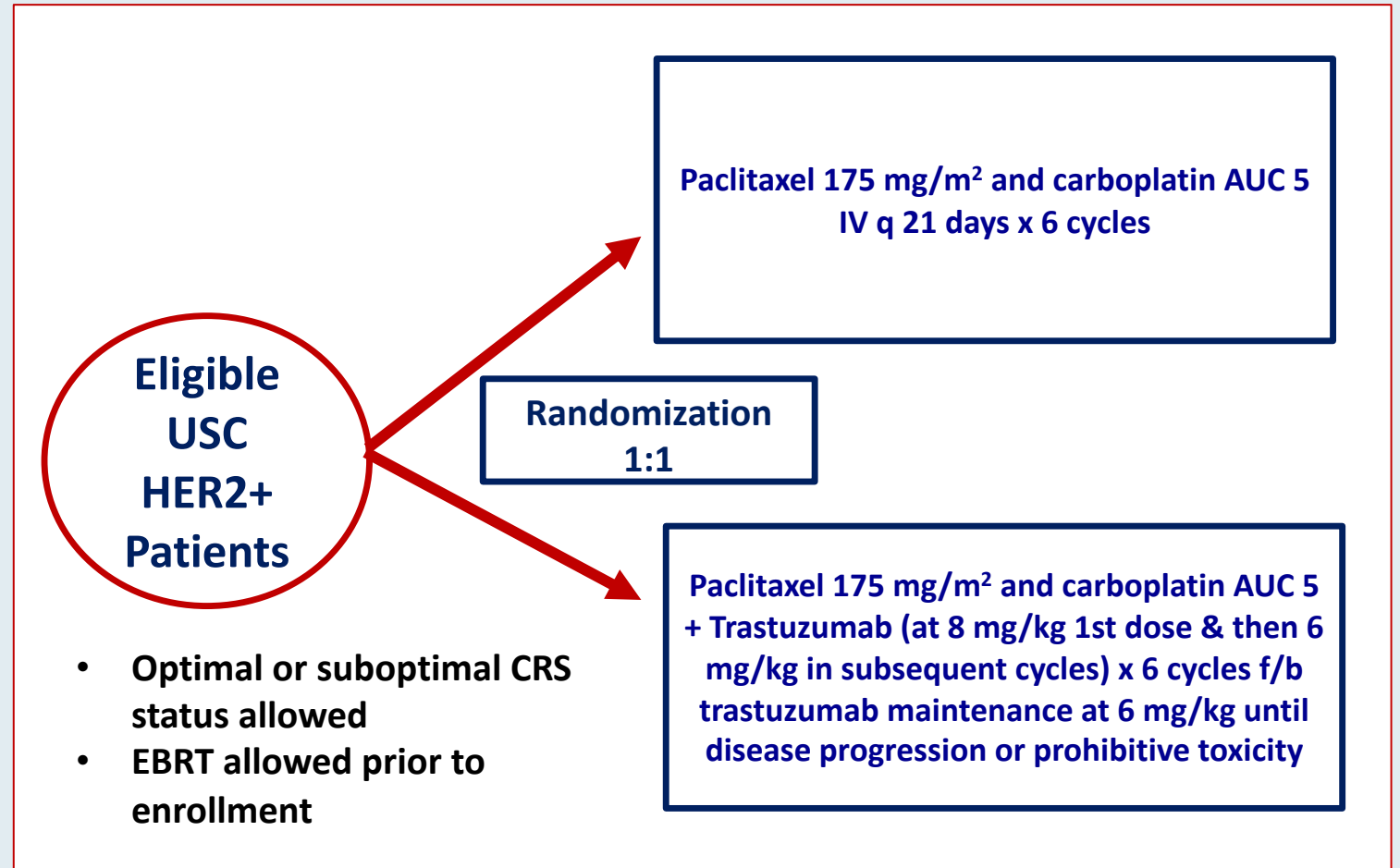
Proposed HER2 Testing Algorithm for Endometrial Serous Carcinoma



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

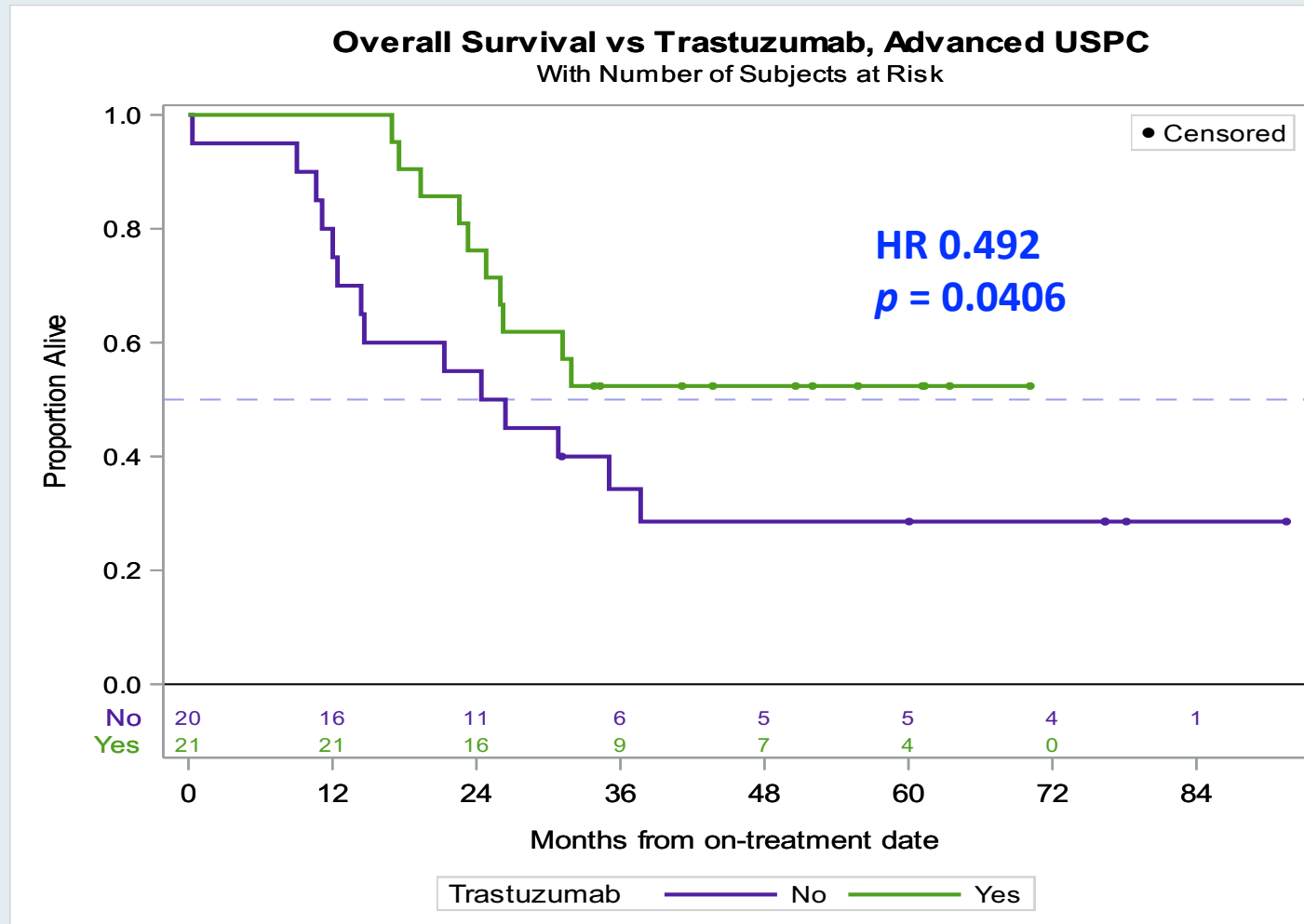
Eligibility

- 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



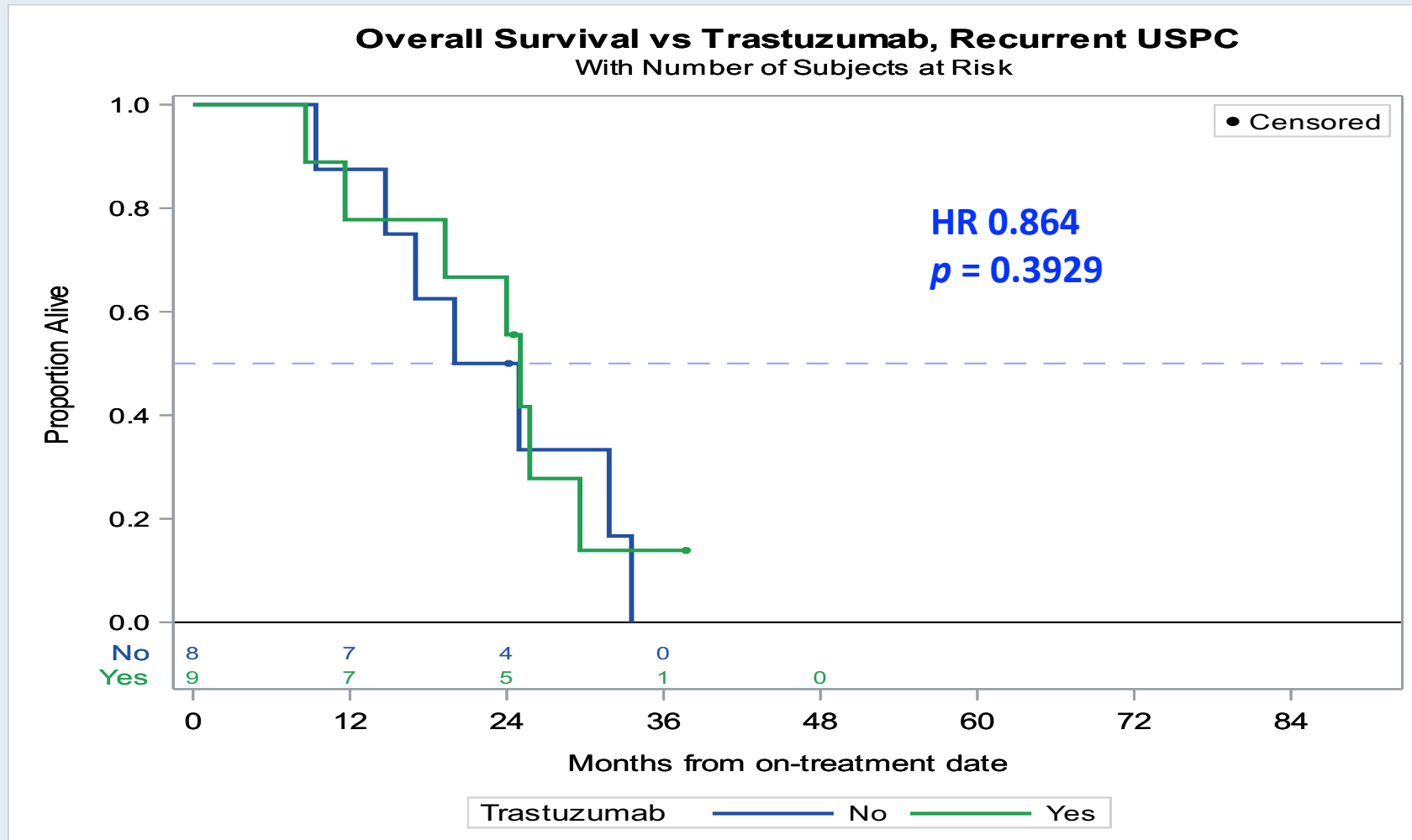
Overall Survival with the Addition of Trastuzumab to Carboplatin/Paclitaxel for Advanced Uterine Serous Papillary Carcinoma (USPC)

- 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

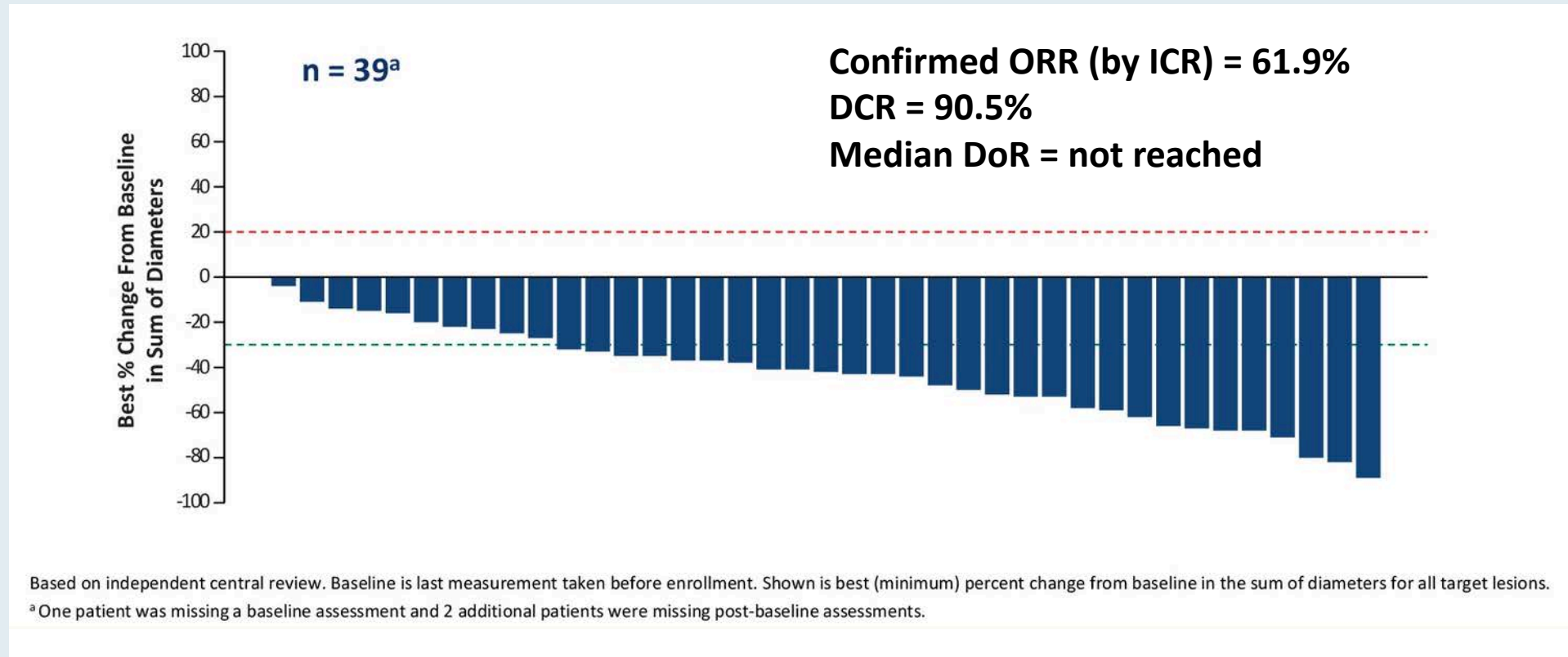
7 cohorts will be evaluated:
Endometrial cancer, cervical cancer, ovarian cancer, bladder cancer, biliary tract cancer, pancreatic cancer and rare tumors

Primary endpoint: ORR

Secondary endpoints include DOR, PFS, OS, DCR

DESTINY-Lung01: Best Change in Tumor Size

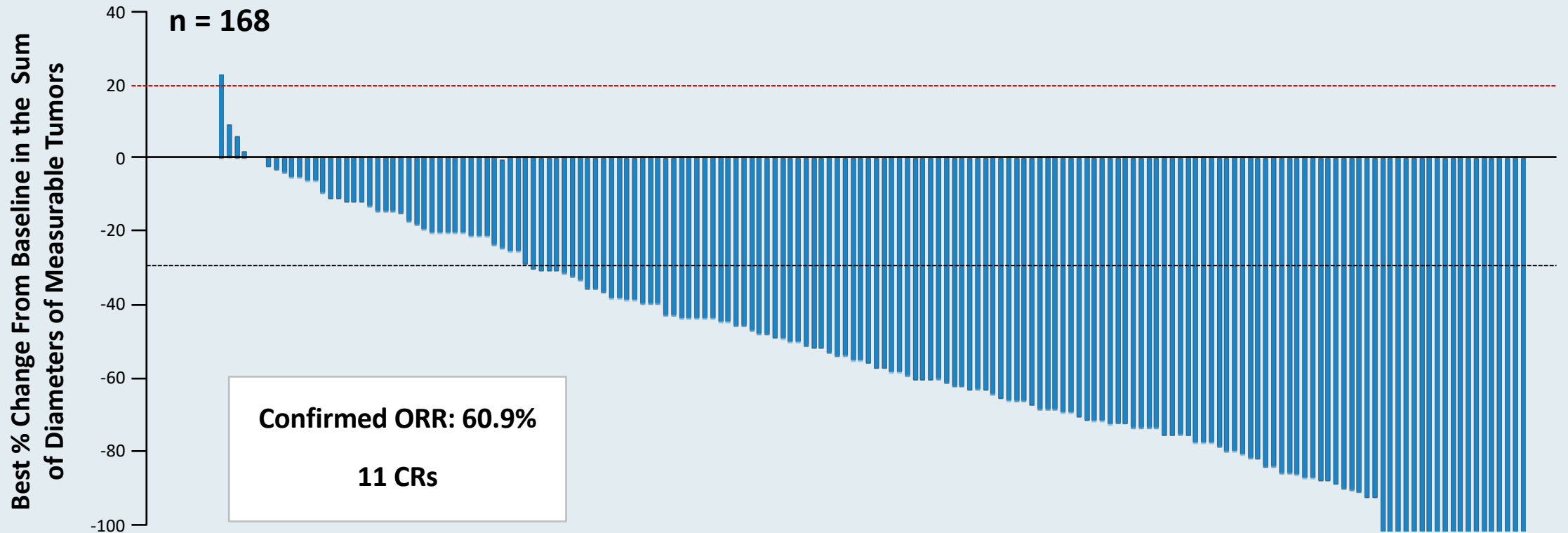
Trastuzumab Deruxtecan in Lung Cancer



Median PFS = 14.0 months

DESTINY-Breast01: Best Change in Tumor Size

Trastuzumab Deruxtecan in Breast Cancer



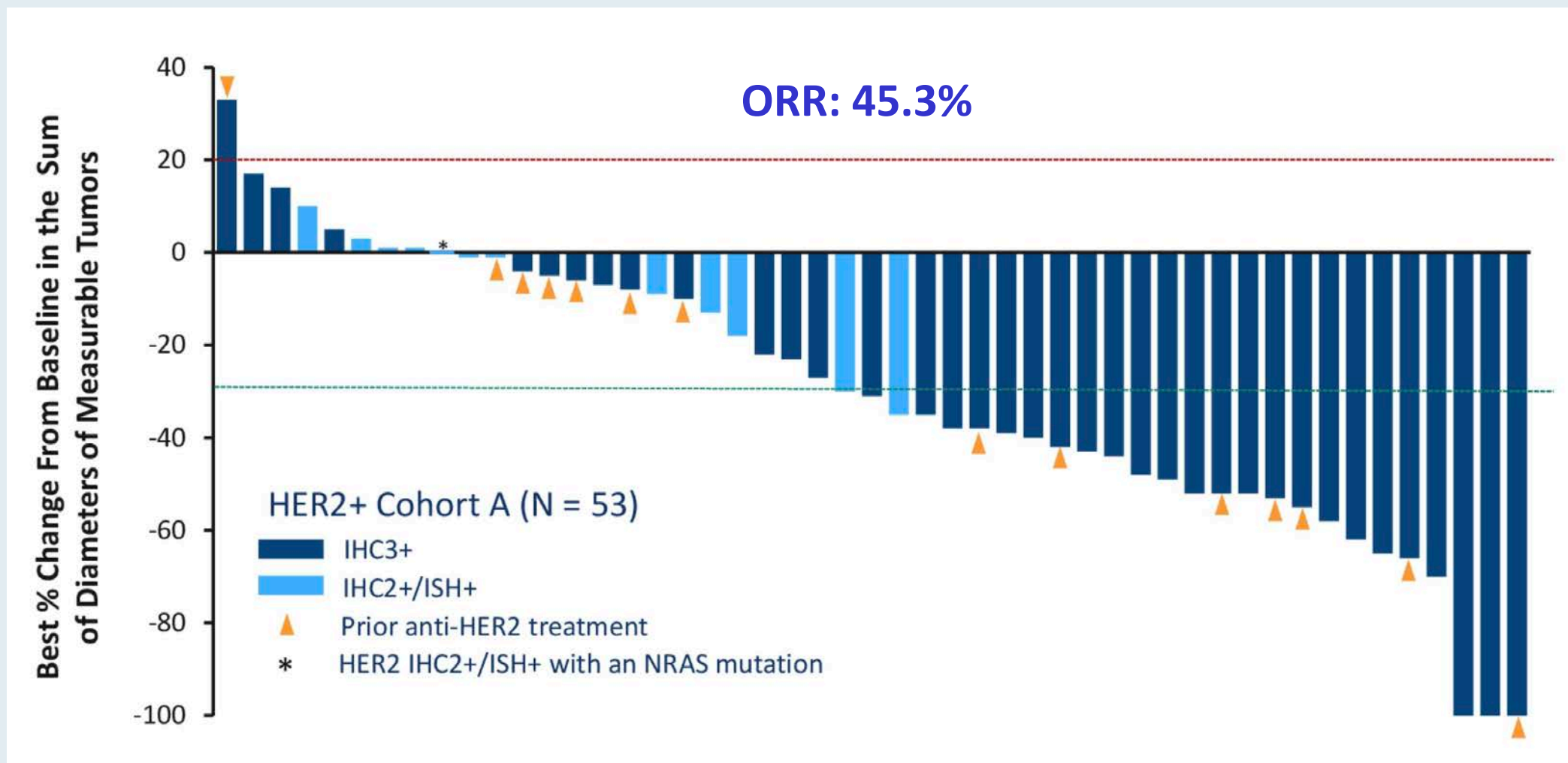
By independent central review.

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).

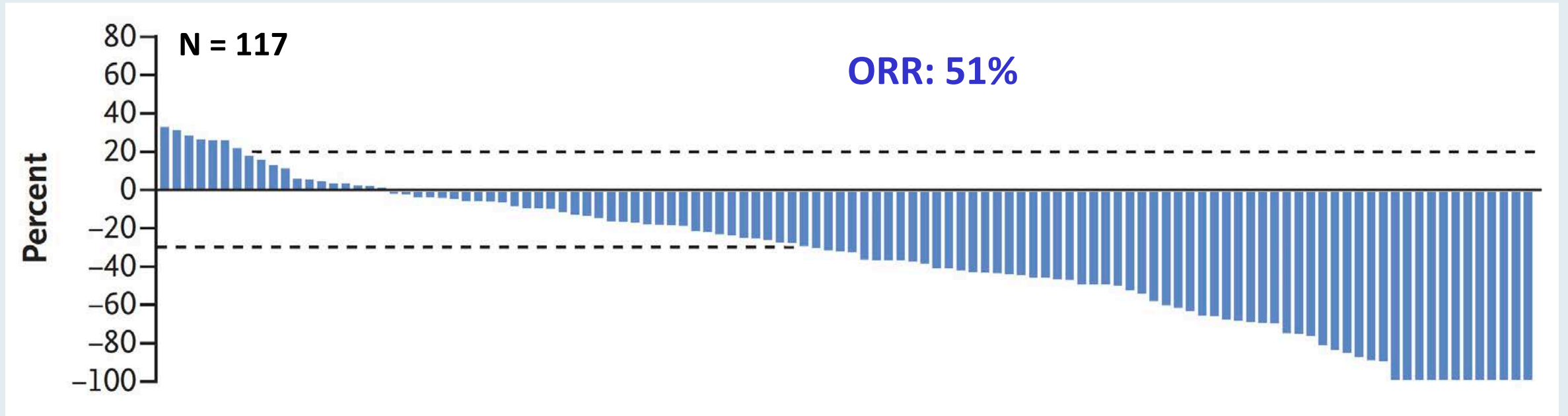
DESTINY-CRC01: Best Change in Tumor Size

Trastuzumab Deruxtecan in Colorectal Cancer



DESTINY-Gastric01: Best Change in Tumor Size

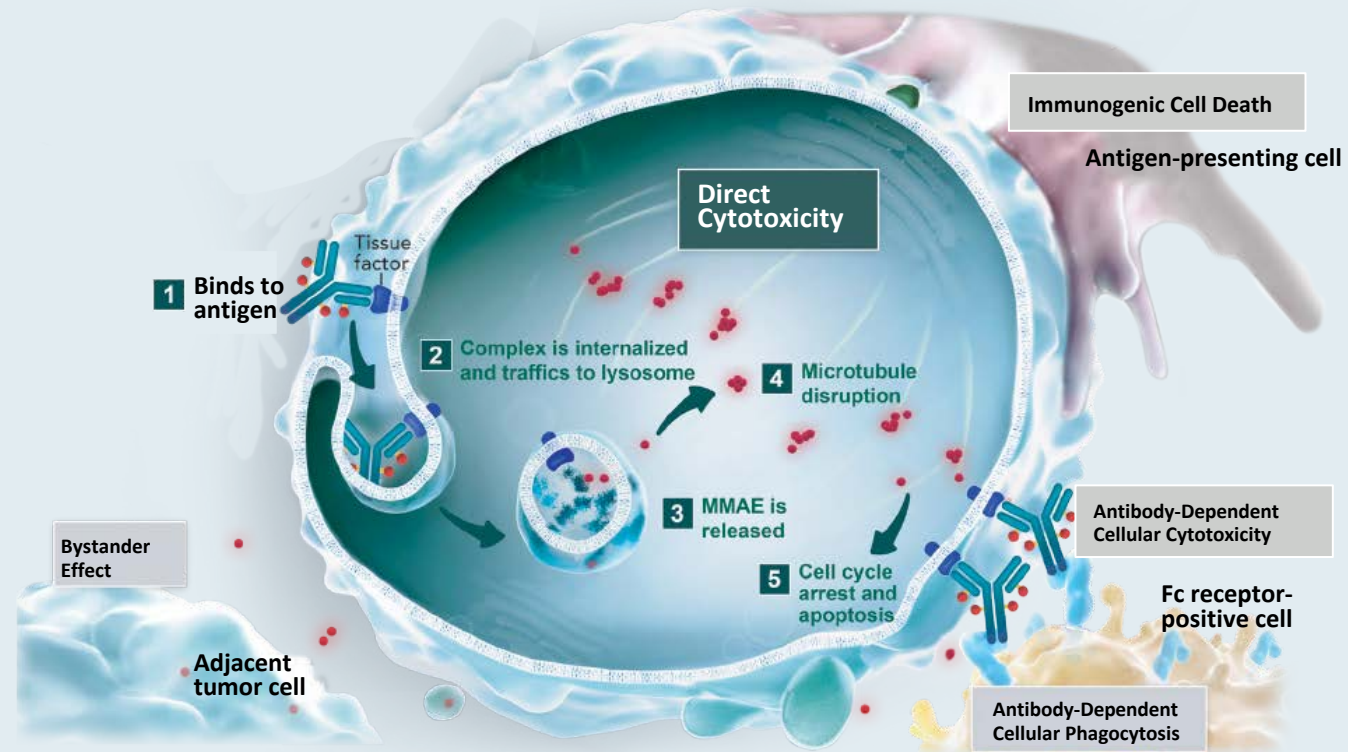
Trastuzumab Deruxtecan in Gastric Cancer



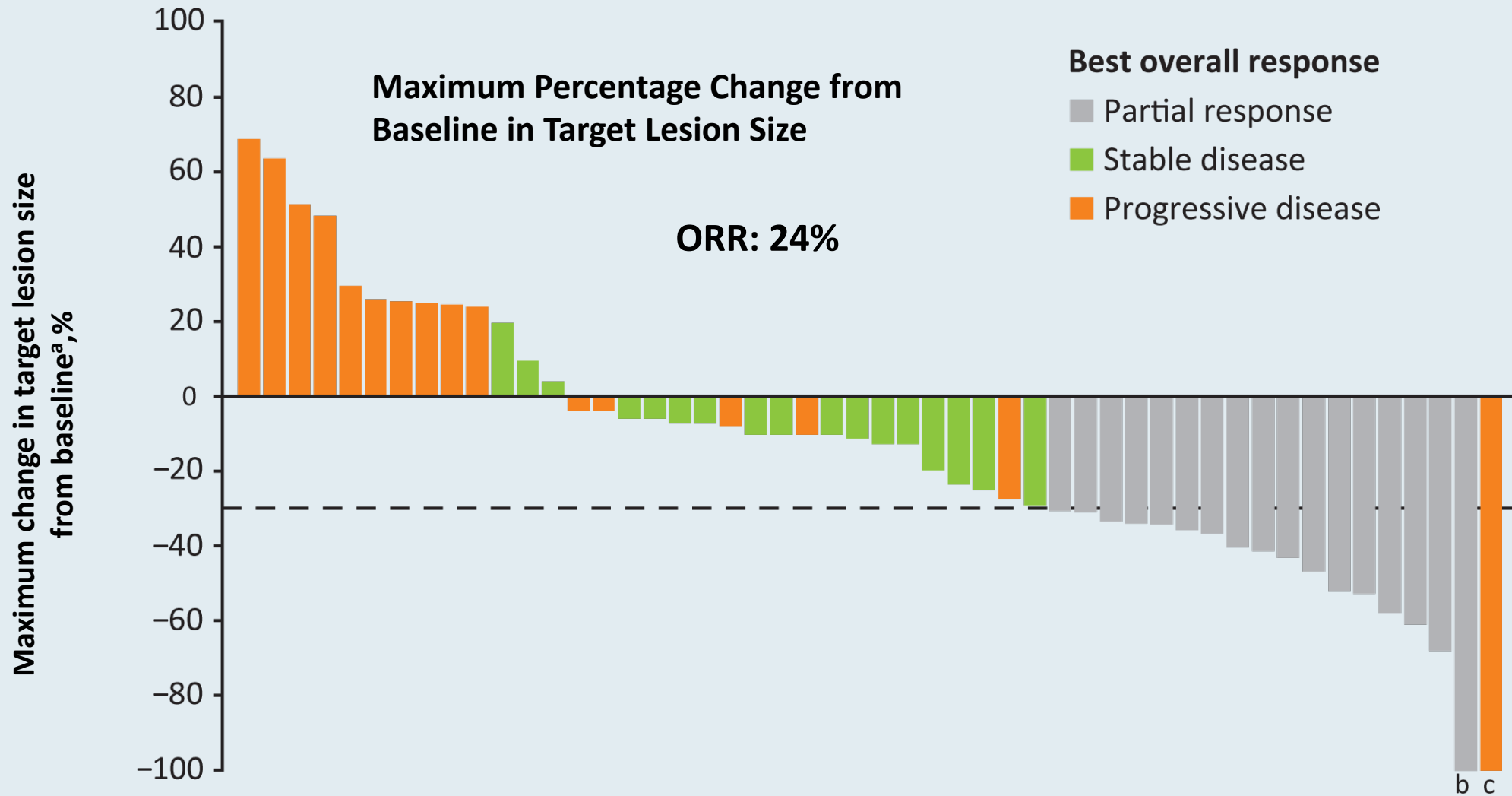
Tisotumab Vedotin and Other Novel Agents in Gynecologic Cancers

Mechanism of Action of Tisotumab Vedotin

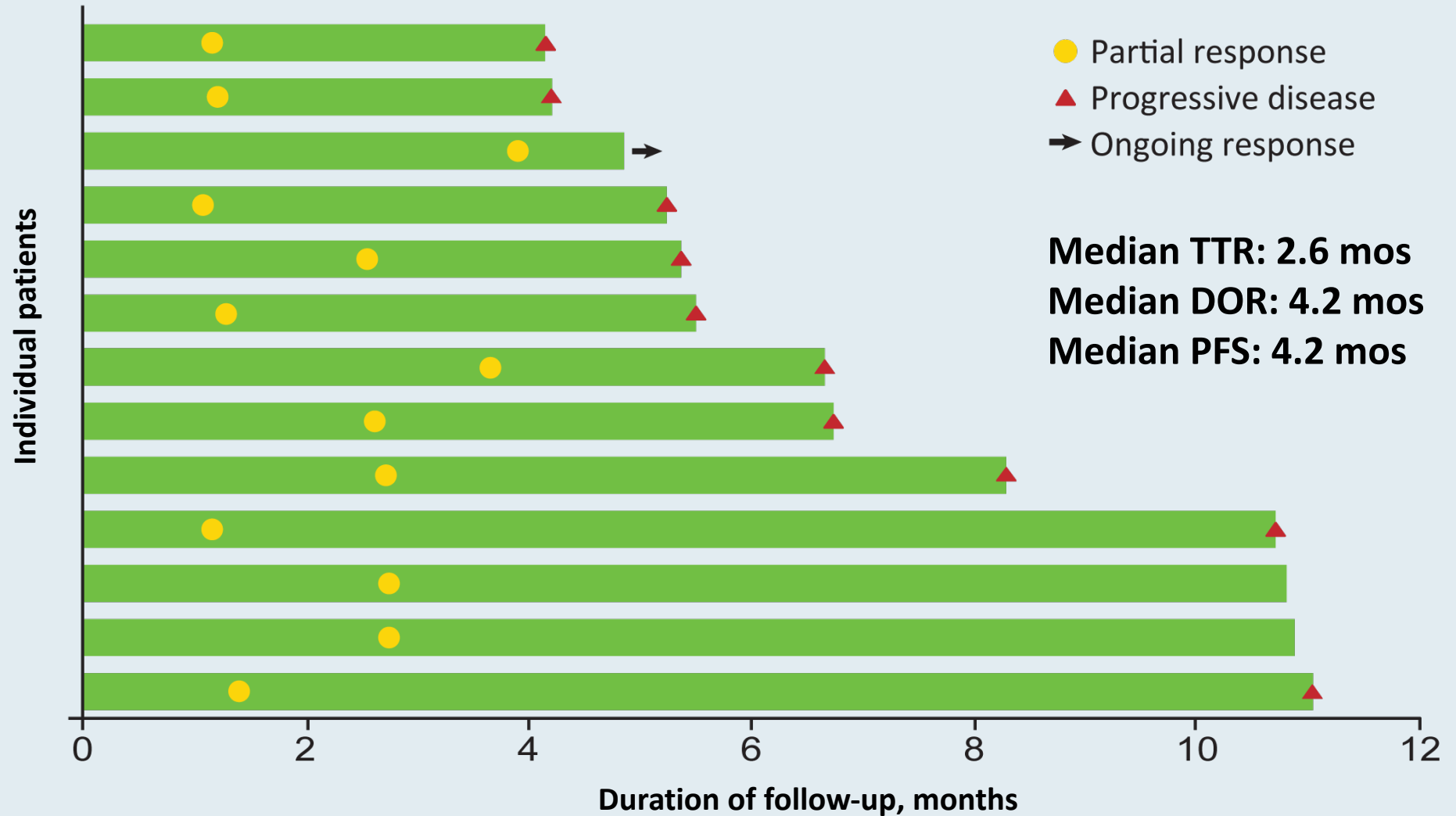
- Tissue factor (TF) is aberrantly expressed in a broad range of solid tumours, including cervical cancer,^{1,2} and TF expression has been associated with higher tumour stage and grade, higher metastatic burden and poor prognosis²
- TF expression in cervical cancer makes TF a novel target for patients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

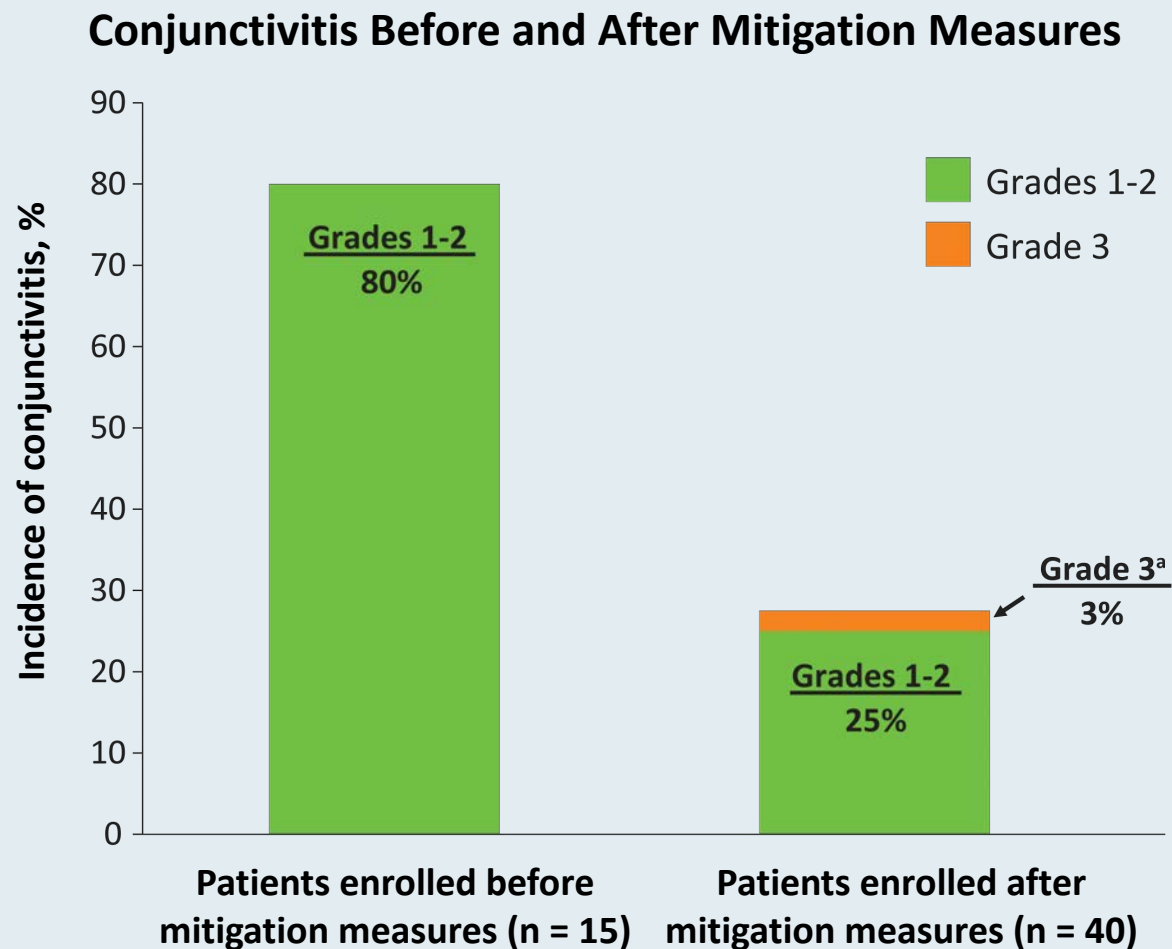


innovaTV 201: Time to Response and Duration of Response in Patients with a Confirmed PR to TV



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.

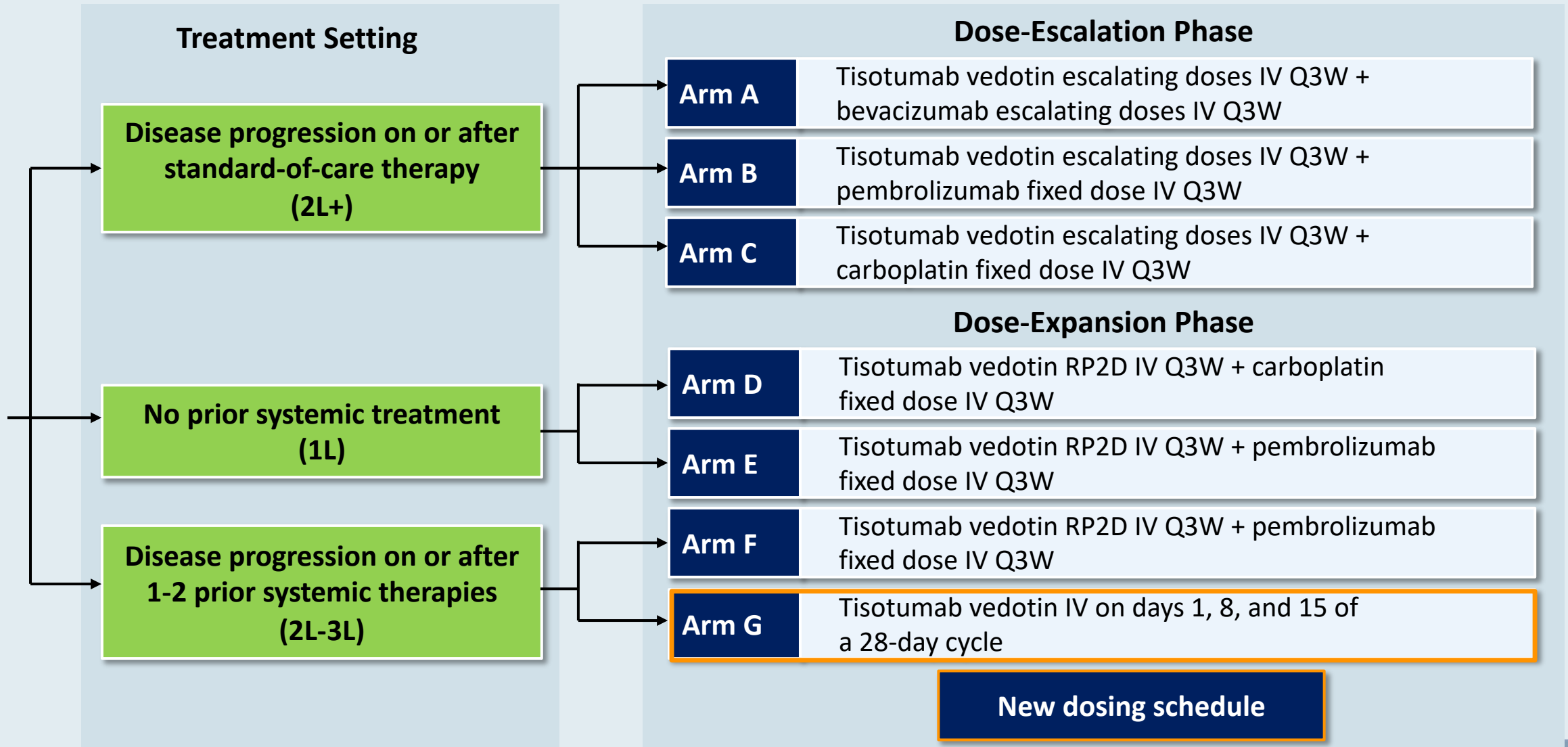
Positive Topline Results with Tisotumab Vedotin in the Phase II InnovaTV 204 Trial

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



Meet The Professor

Management of Lung Cancer

Tuesday, October 13, 2020
12:00 PM – 1:00 PM ET

Faculty

Paul K Paik, MD

Moderator

Neil Love, MD

Thank you for joining us!

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