

13th Annual Oncology Grand Rounds

*A Complimentary NCPD Live Webinar Series
Held During the 46th Annual ONS Congress*

Gynecologic Cancers

Tuesday, April 27, 2021

5:00 PM – 6:30 PM ET

Medical Oncologists

Robert L Coleman, MD

Thomas J Herzog, MD

Krishnansu S Tewari, MD

Oncology Nurse Practitioners

Paula J Anastasia, MN, RN, AOCN

Courtney Arn, CNP

**Kimberly A Spickes, MN, RN, APRN,
OCN, ACNP-BC**

Moderator

Neil Love, MD

Medical Oncologists



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



Thomas J Herzog, MD
Paul and Carolyn Flory Professor
Deputy Director, University of Cincinnati
Cancer Center
Vice-Chair, Quality and Safety
Department of Obstetrics and Gynecology
University of Cincinnati Medical Center
Associate Director, GOG Partners
Cincinnati, Ohio



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

Oncology Nurse Practitioners



Paula J Anastasia, MN, RN, AOCN
GYN Oncology Advanced Practice Nurse
University of California, Los Angeles
Los Angeles, California



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



Kimberly A Spickes, MN, RN, APRN, OCN, ACNP-BC
Nurse Practitioner
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University of Arkansas for Medical Sciences
Little Rock, Arkansas

Commercial Support

This activity is supported by educational grants from AstraZeneca Pharmaceuticals LP, Eisai Inc, GlaxoSmithKline and Merck.

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 Coleman — Disclosures

Advisory Committee and Consulting Agreements	AbbVie Inc, AstraZeneca Pharmaceuticals LP, Clovis Oncology, Genentech, a member of the Roche Group, GlaxoSmithKline, ImmunoGen Inc, Janssen Biotech Inc, Merck, Novocure Inc, Roche Laboratories Inc, Takeda Oncology, Tesaro, A GSK Company
Contracted Research	AbbVie Inc, AstraZeneca Pharmaceuticals LP, Clovis Oncology, Genentech, a member of the Roche Group, Janssen Biotech Inc, Merck, Roche Laboratories Inc
Data and Safety Monitoring Board/Committee	AstraZeneca Pharmaceuticals LP, VBL Therapeutics

Dr Herzog — Disclosures

Advisory Committee	Aravive Inc, AstraZeneca Pharmaceuticals LP, Caris Life Sciences, Clovis Oncology, Eisai Inc, Genentech, a member of the Roche Group, Gradalis Inc, GlaxoSmithKline, Merck
Data and Safety Monitoring Board/Committee	Corcept Therapeutics, Incyte Corporation

Dr Tewari — Disclosures

Advisory Committee	AbbVie Inc, Amgen Inc, AstraZeneca Pharmaceuticals LP, Clovis Oncology, Eisai Inc, Genentech, a member of the Roche Group, Merck, Tesaro, A GSK Company
Contracted Research (to Institution)	Regeneron Pharmaceuticals Inc
Data and Safety Monitoring Board/Committee	Iovance Biotherapeutics
Speakers Bureau	AstraZeneca Pharmaceuticals LP, Clovis Oncology, Eisai Inc, Merck, Tesaro, A GSK Company

Ms Anastasia — Disclosures

No relevant conflicts of interest to disclose.

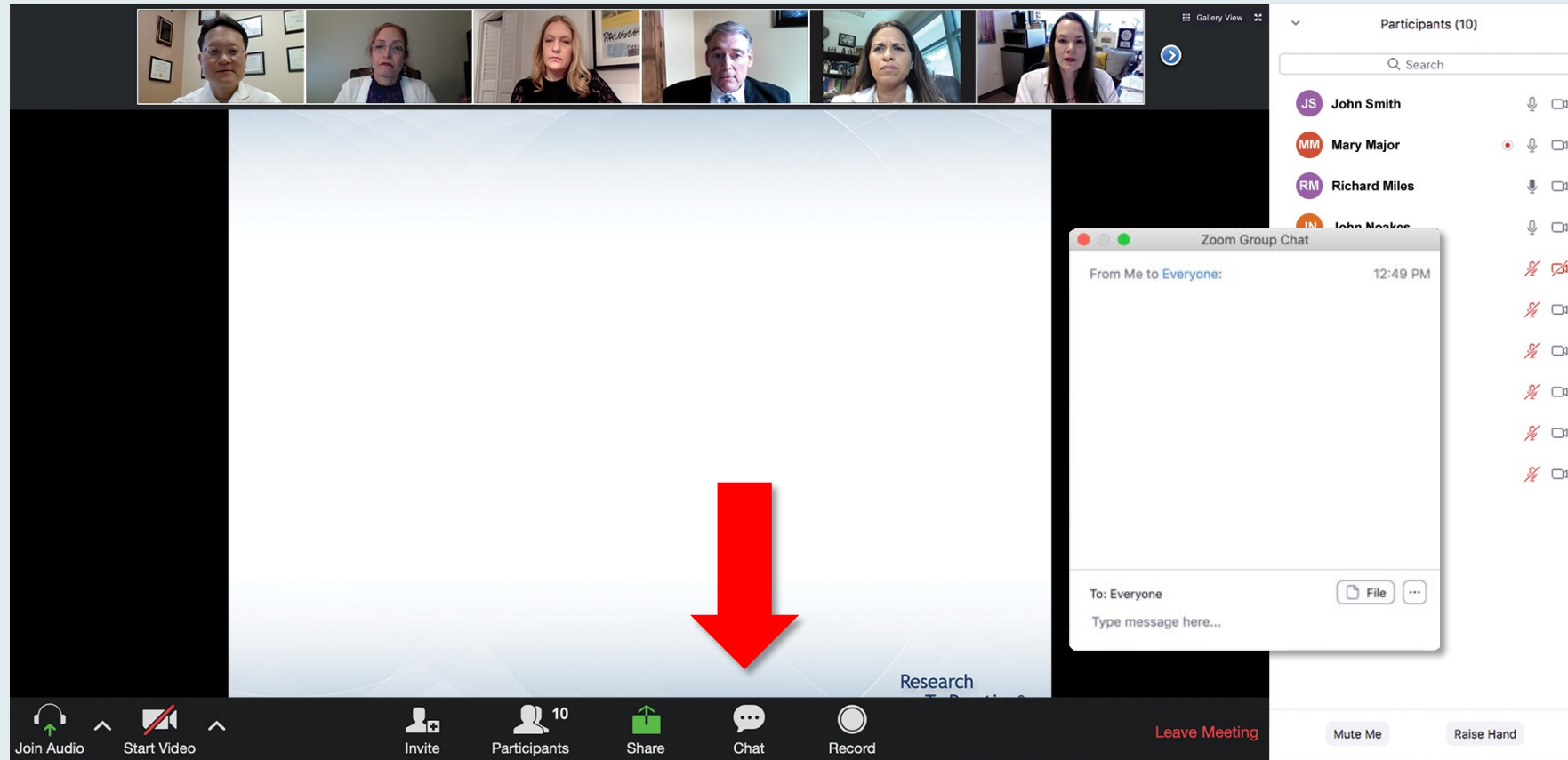
Ms Arn — Disclosures

No relevant conflicts of interest to disclose.

Ms Spickes — Disclosures

No relevant conflicts of interest 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 displays a Zoom meeting interface. At the top, a gallery view shows six participants. The main screen displays a poll question: "What is your usual treatment recommendation for a patient with MM who has been followed by ASCT for 1-5 years who then experiences an asymptomatic relapse?". Below the question is a list of ten treatment options, each preceded by a number. A "Quick Poll" overlay is visible, showing a list of radio button options corresponding to the poll choices. The bottom of the screen features a toolbar with icons for "Join Audio", "Start Video", "Invite", "Participants" (showing 10), "Share", "Chat", "Record", and a "Leave Meeting" button. On the right side, a "Participants (10)" list is shown, including names like John Smith, Mary Major, Richard Miles, John Noakes, Alice Suarez, Jane Perez, Robert Stiles, Juan Fernandez, Ashok Kumar, and Jeremy Smith, each with a status icon.

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

Participants (10)

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

When a poll question pops up, click your answer choice from the available options.

Familiarizing Yourself with the Zoom Interface

Expand chat submission box

The screenshot displays a Zoom meeting interface. At the top, a video bar shows participants: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the video bar, a 'Recording...' indicator is visible. The main content area shows a presentation slide titled 'Meet The Professor Program Steering Committee'. The slide lists six members of the committee, each with a portrait photo and their name and affiliation:

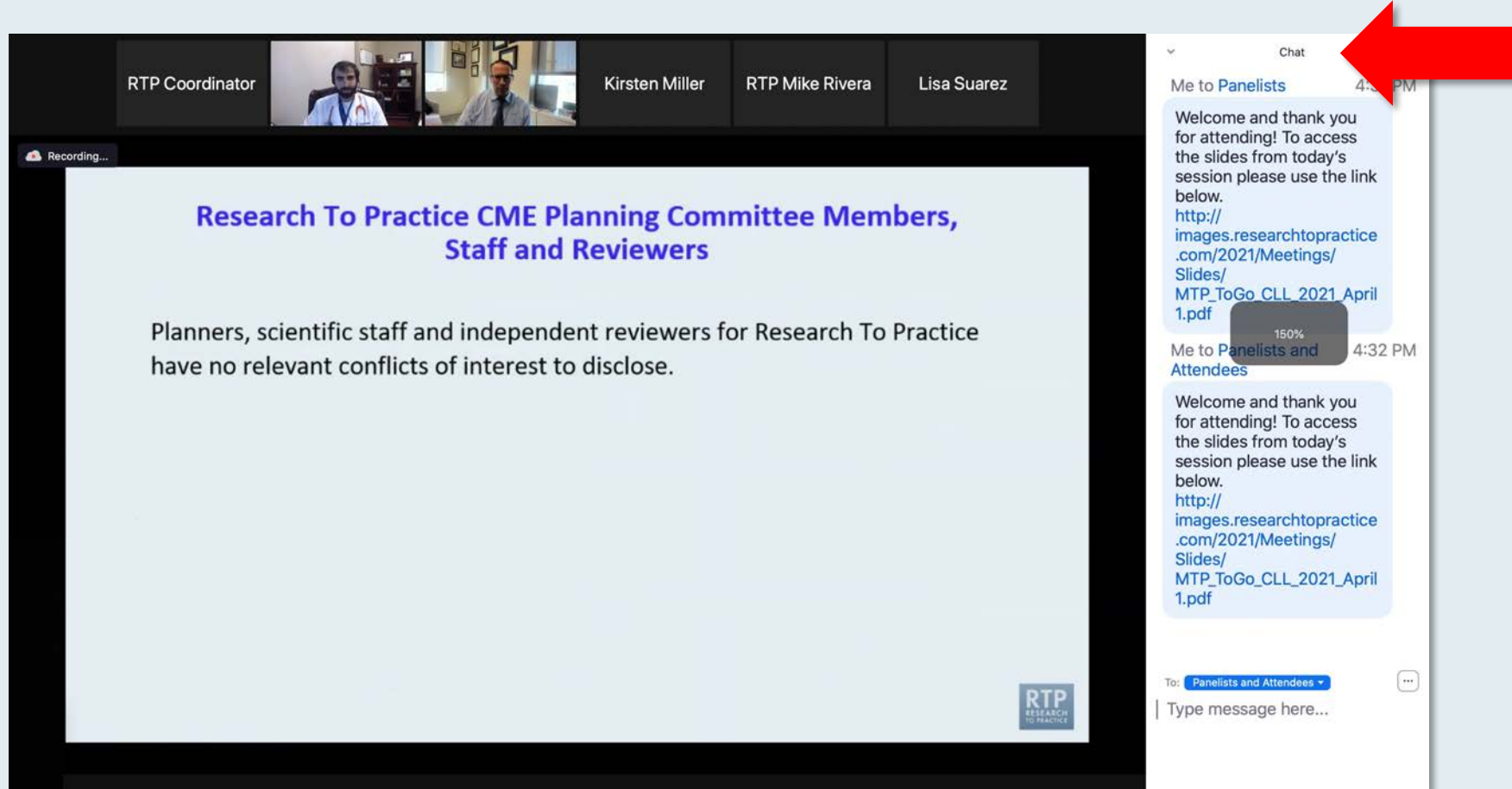
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Assistant Professor of Medicine
Weill Cornell Medicine
New York, New York
- Ian W Flinn, MD, PhD**
Director of Lymphoma Research Program
Sarah Cannon Research Institute
Tennessee Oncology
Nashville, Tennessee
- Steven Coutre, MD**
Professor of Medicine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

The chat window on the right is titled 'Chat' and shows two messages from 'Me to Panelists' and 'Me to Panelists and Attendees' at 4:31 PM and 4:32 PM respectively. Each message says: 'Welcome and thank you for attending! To access the slides from today's session please use the link below. http://images.researchtopractice.com/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April1.pdf'. At the bottom of the chat window, there is a 'To:' dropdown menu set to 'Panelists and Attendees' and a text input field labeled 'Type message here...'. A large red arrow points to this input field.

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

Familiarizing Yourself with the Zoom Interface

Increase chat font size



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

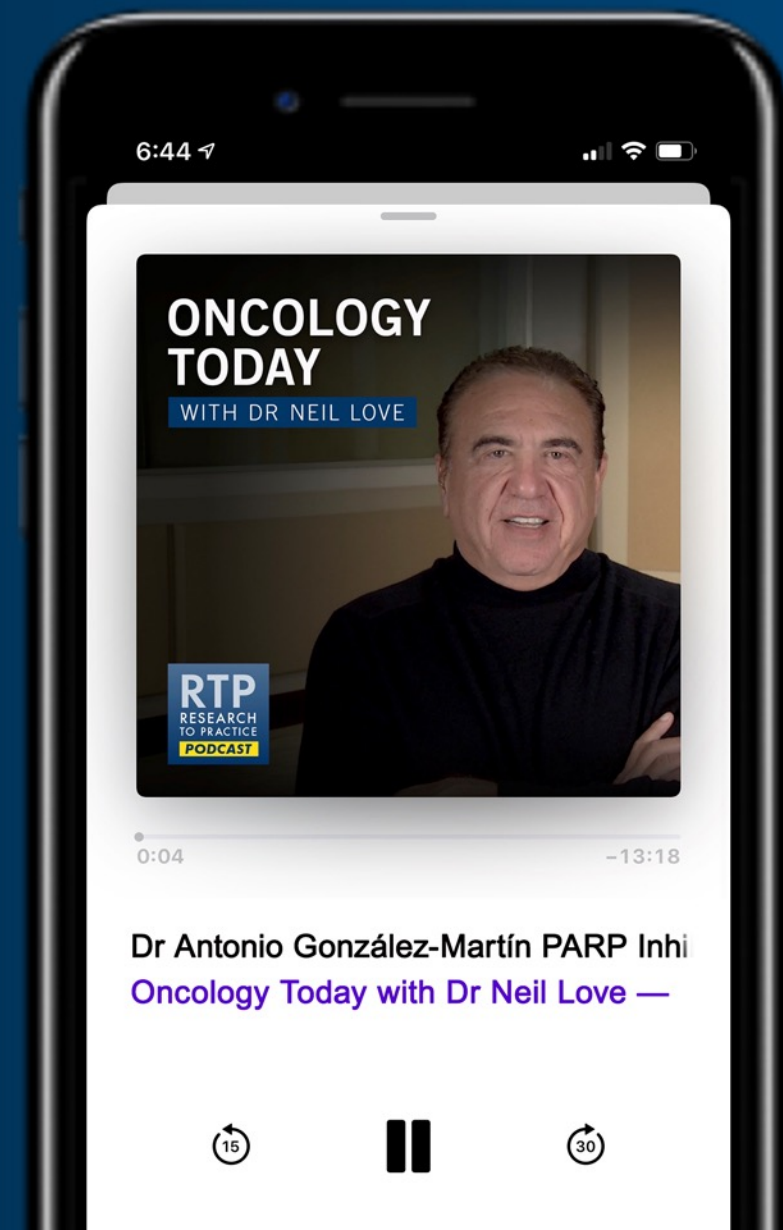
ONCOLOGY TODAY

WITH DR NEIL LOVE

PARP Inhibitors in Ovarian Cancer



DR ANTONIO GONZÁLEZ-MARTÍN
CLÍNICA UNIVERSIDAD DE NAVARRA



13th Annual Oncology Grand Rounds

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Breast Cancer

Tuesday, April 20, 2021

8:30 AM – 10:00 AM ET

Non-Small Cell Lung Cancer

Tuesday, April 20, 2021

5:00 PM – 6:30 PM ET

Acute Myeloid Leukemia

Wednesday, April 21, 2021

12:00 PM – 1:00 PM ET

Colorectal and Gastroesophageal Cancers

Wednesday, April 21, 2021

4:45 PM – 5:45 PM ET

Prostate Cancer

Thursday, April 22, 2021

8:30 AM – 10:00 AM ET

Hodgkin and Non-Hodgkin Lymphomas

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Gynecologic Cancers

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Chimeric Antigen Receptor T-Cell Therapy

Thursday, April 29, 2021

5:00 PM – 6:30 PM ET

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

In Partnership with Project Echo® and Florida Cancer Specialists

**Tuesday, May 4, 2021
5:00 PM – 6:00 PM ET**

Faculty

Chung-Han Lee, MD, PhD

Moderator

Neil Love, MD

Current Concepts and Recent Advances in Oncology

*A Daylong Clinical Summit Hosted in
Partnership with Medical Oncology
Association of Southern California (MOASC)*

**Saturday, May 15, 2021
10:30 AM – 6:30 PM ET**

Saturday, May 15, 2021

10:30 AM — Breast Cancer

Ruth O'Regan, Tiffany A Traina

11:30 AM — Multiple Myeloma

Kenneth Anderson, Noopur Raje

12:50 PM — Chronic Lymphocytic Leukemia and Lymphomas

Craig Moskowitz, Jeff Sharman

1:50 PM — Genitourinary Cancers

Joaquim Bellmunt, Sumanta Kumar Pal

Saturday, May 15, 2021

3:15 PM — Gastrointestinal Cancers

Wells A Messersmith, Eileen M O'Reilly

4:15 PM — Acute Myeloid Leukemia and Myelodysplastic Syndromes

Harry Paul Erba, Rami Komrokji

5:35 PM — Lung Cancer

D Ross Camidge, Benjamin Levy

Up for Debate: Oncology Investigators Provide Their Take on Current Controversies in Patient Care

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**Saturday, May 22, 2021
10:15 AM – 4:15 PM ET**

Saturday, May 22, 2021

10:15 AM — Lung Cancer

John V Heymach, Stephen V Liu

11:30 AM — Genitourinary Cancers

Maha Hussain, Elizabeth R Plimack

12:45 PM — Chronic Lymphocytic Leukemia and Lymphomas

Jonathan W Friedberg, Laurie H Sehn

2:00 PM — Multiple Myeloma

Irene M Ghobrial, Sagar Lonial

3:15 PM — Breast Cancer

Virginia Kaklamani, Nancy U Lin

Thank you for joining us!

***NCPD credit information will be emailed
to each participant shortly.***

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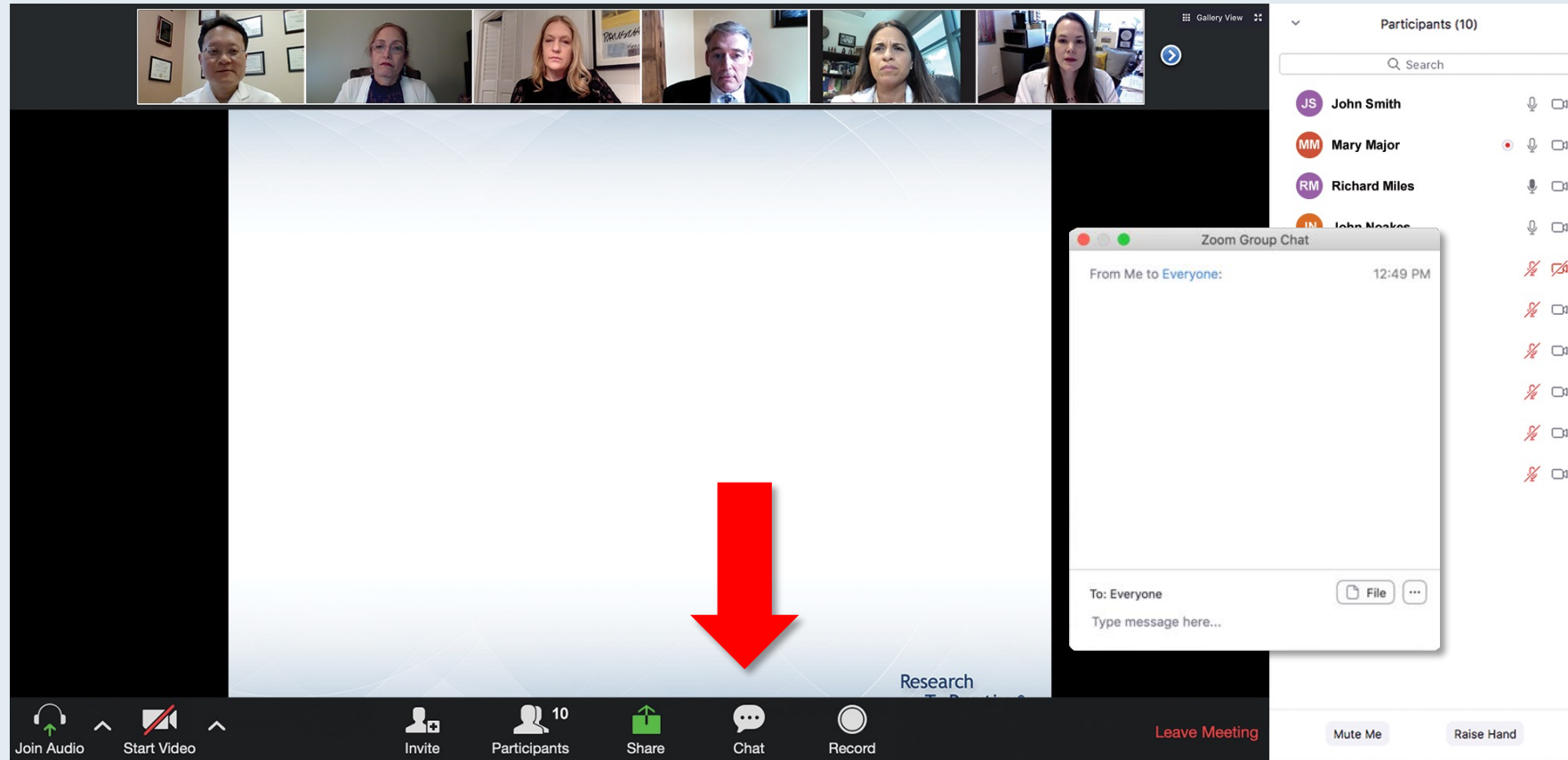


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Participants (10)

Name	Status
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MM Mary Major	Microphone On
RM Richard Miles	Microphone Off
JN John Noakes	Microphone Off
AS Alice Suarez	Microphone Off
JP Jane Perez	Microphone Off
RS Robert Stiles	Microphone Off
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Medical Oncologists



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Susan F Smith Center for Women's Cancers
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Director of Breast Immunotherapy Clinical Research
Senior Physician
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Solove Research Institute
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Berkeley, California



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Nashville, Tennessee



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Dana-Farber Cancer Institute
Boston, Massachusetts

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Lead Apheresis APP
Hematopoietic Cellular Therapy Program
Section of Hematology/Oncology
The University of Chicago Medicine and
Biological Sciences
Chicago, Illinois



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Massachusetts General Hospital
Boston, Massachusetts



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Adjunct Faculty, Nell Hodgson Woodruff
School of Nursing
Atlanta, Georgia



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Susan F Smith Center for Women's Cancers
Dana-Farber Cancer Institute
Boston, Massachusetts



Sonia Glennie, ARNP, MSN, OCN
Swedish Cancer Institute Center for
Blood Disorders
Seattle, Washington



Corinne Hoffman, MS, APRN-CNP, AOCNP
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The Ohio State University Wexner Medical Center
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Jessica Mitchell, APRN, CNP, MPH
Assistant Professor of Oncology
Mayo Clinic College of Medicine and Science
Rochester, Minnesota



Patricia Mangan, RN, MSN, CRNP, APN, BC
Nurse Lead, Hematologic Malignancies and
Stem Cell Transplant Programs
Abramson Cancer Center
University of Pennsylvania
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Mollie Moran, APRN-CNP, AOCNP
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Columbus, Ohio

Oncology Nurse Practitioners



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Los Angeles, California



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University of Chicago Medicine
Chicago, Illinois

Oncology Grand Rounds Nursing Webinar Series

Monday	Tuesday	Wednesday	Thursday	Friday
19	20	21	22	23
	Breast Ca 8:30 AM	AML 12:00 PM	Prostate Ca 8:30 AM	
	<hr/>	<hr/>	<hr/>	
	Lung Ca 5:00 PM	CRC and GE Ca 4:45 PM	Lymphomas 5:00 PM	
26	27	28	29	30
	Multiple Myeloma 8:30 AM	Bladder Ca 12:00 PM	CLL 8:30 AM	
	Gynecologic Ca 5:00 PM		<hr/>	
			CAR-T 5:00 PM	

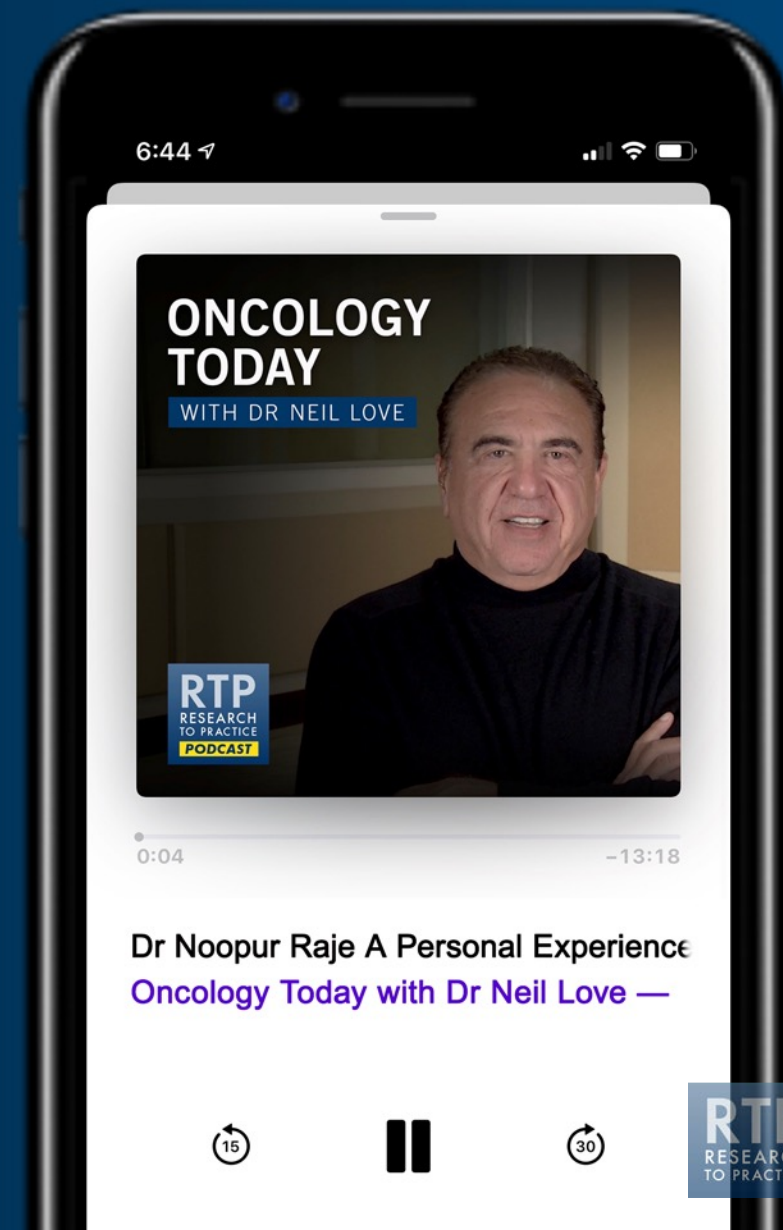
ONCOLOGY TODAY

WITH DR NEIL LOVE

A Personal Experience with COVID-19



DR NOOPUR RAJE
MASSACHUSETTS GENERAL HOSPITAL







13th Annual Oncology Grand Rounds

Oncology Nurse Practitioners

Case Presentations

- Key patient-education issues
- Biopsychosocial considerations:
 - Family/loved ones
 - The bond that heals

Clinical Investigators

Oncology Strategy

- New agents and regimens
- Predictive biomarkers
- Ongoing research and implications

13th Annual Oncology Grand Rounds

*A Complimentary NCPD Live Webinar Series
Held During the 46th Annual ONS Congress*

Gynecologic Cancers

Tuesday, April 27, 2021

5:00 PM – 6:30 PM ET

Medical Oncologists

Robert L Coleman, MD

Thomas J Herzog, MD

Krishnansu S Tewari, MD

Oncology Nurse Practitioners

Paula J Anastasia, MN, RN, AOCN

Courtney Arn, CNP

**Kimberly A Spickes, MN, RN, APRN,
OCN, ACNP-BC**

Moderator

Neil Love, MD



Paula J Anastasia, NP MN AOCN



Courtney R Arn, APRN-CNP



Kimberly A Spickes, MNSc, RN, APRN, OCN, ACNP-BC

Agenda

Module 1: Ovarian Cancer

- Case 1 (Ms Spickes): A 52-year-old woman with Stage IIIA2 ovarian cancer and a somatic BRCA2 mutation
- Case 2 (Ms Anastasia): A 59-year-old woman with BRCA wild-type, HRD-proficient ovarian cancer
- Case 3 (Ms Arn): A 51-year-old woman with Stage IIIC ovarian cancer and a germline BRCA1 mutation

Module 2: Endometrial Cancer

- Case 4 (Ms Spickes): A 68-year-old woman with recurrent endometrial cancer, MSI high
- Case 5 (Ms Arn): An 81-year-old woman with recurrent endometrial cancer, MMR proficient
- Case 6 (Ms Anastasia): A 60-year-old woman with recurrent endometrial cancer, MMR deficient
- Case 7 (Ms Anastasia): A 50-year-old woman with recurrent endometrial cancer, MMR proficient

Module 3: Cervical Cancer – Relapsed Disease

- Case 8 (Ms Arn): A 58-year-old woman with recurrent cervical cancer, PD-L1-positive
- Case 9 (Ms Arn): A 37-year-old woman with recurrent cervical cancer, PD-L1-negative

Ms Spickes: Connecting with patients in the age of COVID-19



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At a minimum, all patients with ovarian cancer should have the following assay(s) conducted at diagnosis regardless of family history of cancer.

1. BRCA germline testing
2. BRCA somatic testing
3. Multiplex germline testing
4. Multiplex somatic testing
5. Both 1 and 2
6. Both 3 and 4
7. I don't know

Bevacizumab can be particularly effective in patients with ovarian cancer who have ascites and/or pleural effusion...

1. Agree
2. Disagree
3. I don't know

In general, postoperative, postchemotherapy primary maintenance therapy with a PARP inhibitor is considered standard for patients with a germline or somatic BRCA mutation.

1. Agree
2. Disagree
3. I don't know

Which of the following PARP inhibitors is approved for use as primary maintenance therapy for patients with BRCA wild-type ovarian cancer?

1. Olaparib
2. Niraparib
3. Rucaparib
4. Veliparib
5. Both 1 and 2
6. All of the above
7. I don't know

Which of the following PARP inhibitors is approved in combination with bevacizumab for use as primary maintenance therapy after first-line platinum-based chemotherapy?

1. Olaparib
2. Niraparib
3. Rucaparib
4. Veliparib
5. Both 1 and 2
6. All of the above
7. I don't know

What was the duration of treatment with olaparib and niraparib in the Phase III trials evaluating maintenance therapy with PARP inhibitors after debulking surgery and first-line platinum-based chemotherapy?

1. 2 years for both
2. 3 years for both
3. 2 years for olaparib, 3 years for niraparib
4. 2 years for niraparib, 3 years for olaparib
5. I don't know

Case Presentation – A 52-year-old woman with Stage IIIA2 ovarian cancer and a somatic BRCA2 mutation



Ms Spickes

- Past medical history of cerebral palsy and stroke, presents to the emergency room with pain and is diagnosed with ovarian cancer
- Surgery → adjuvant chemotherapy x 6 cycles
- Maintenance olaparib
- Dose reduction to mitigate side effects

Ms Anastasia: Genetic testing and counseling; use of neoadjuvant therapy



Case Presentation – A 59-year-old woman with BRCA wild-type, HRD-proficient ovarian cancer



Ms Anastasia

- Former pharmaceutical sales representative presents with ascites and is diagnosed with ovarian cancer
- Neoadjuvant carboplatin/docetaxel + bevacizumab
- Maintenance niraparib (200 mg QD)
- Patient remains NED after 6 months

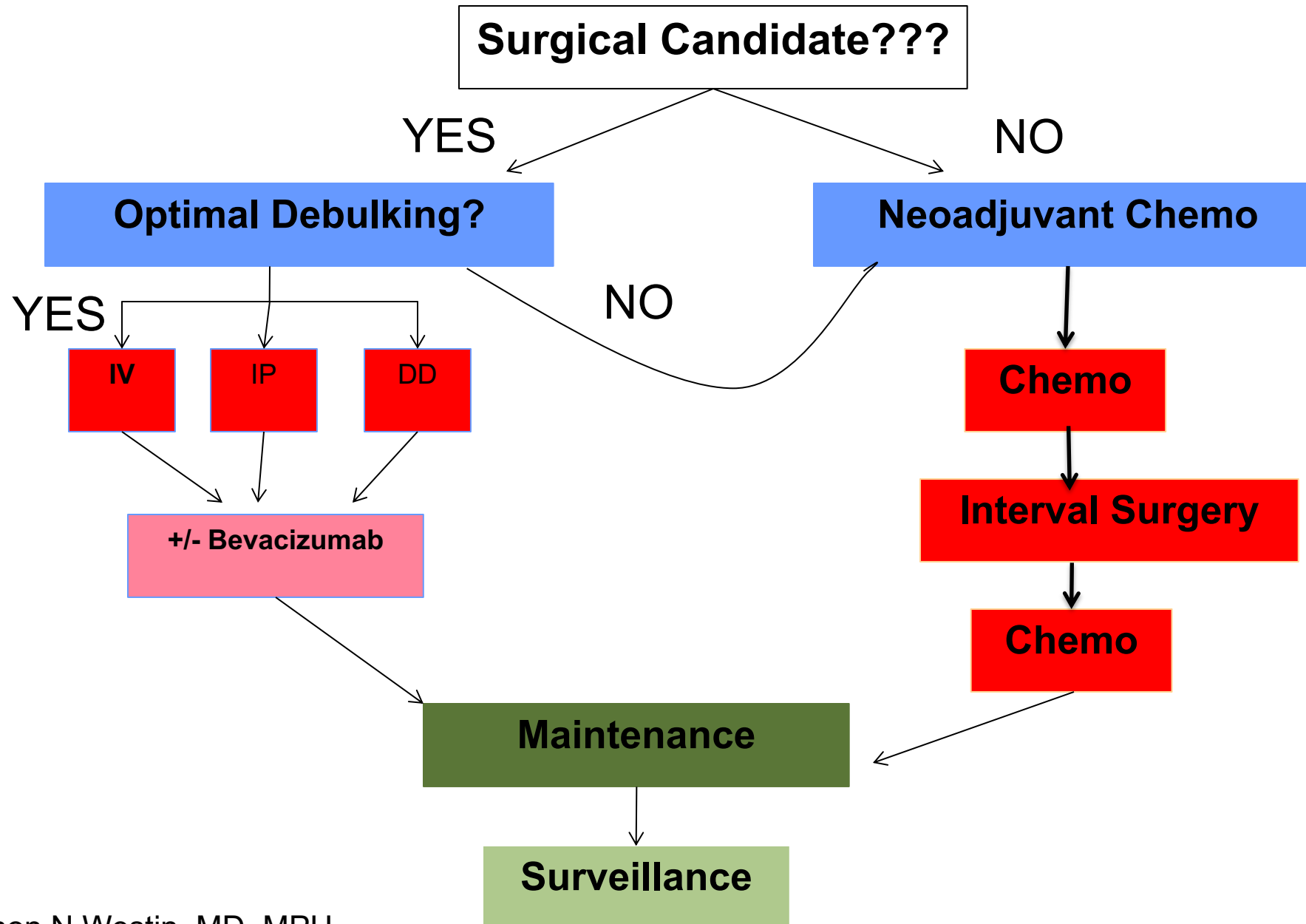
Case Presentation – A 51-year-old woman with Stage IIIC ovarian cancer and a germline BRCA1 mutation



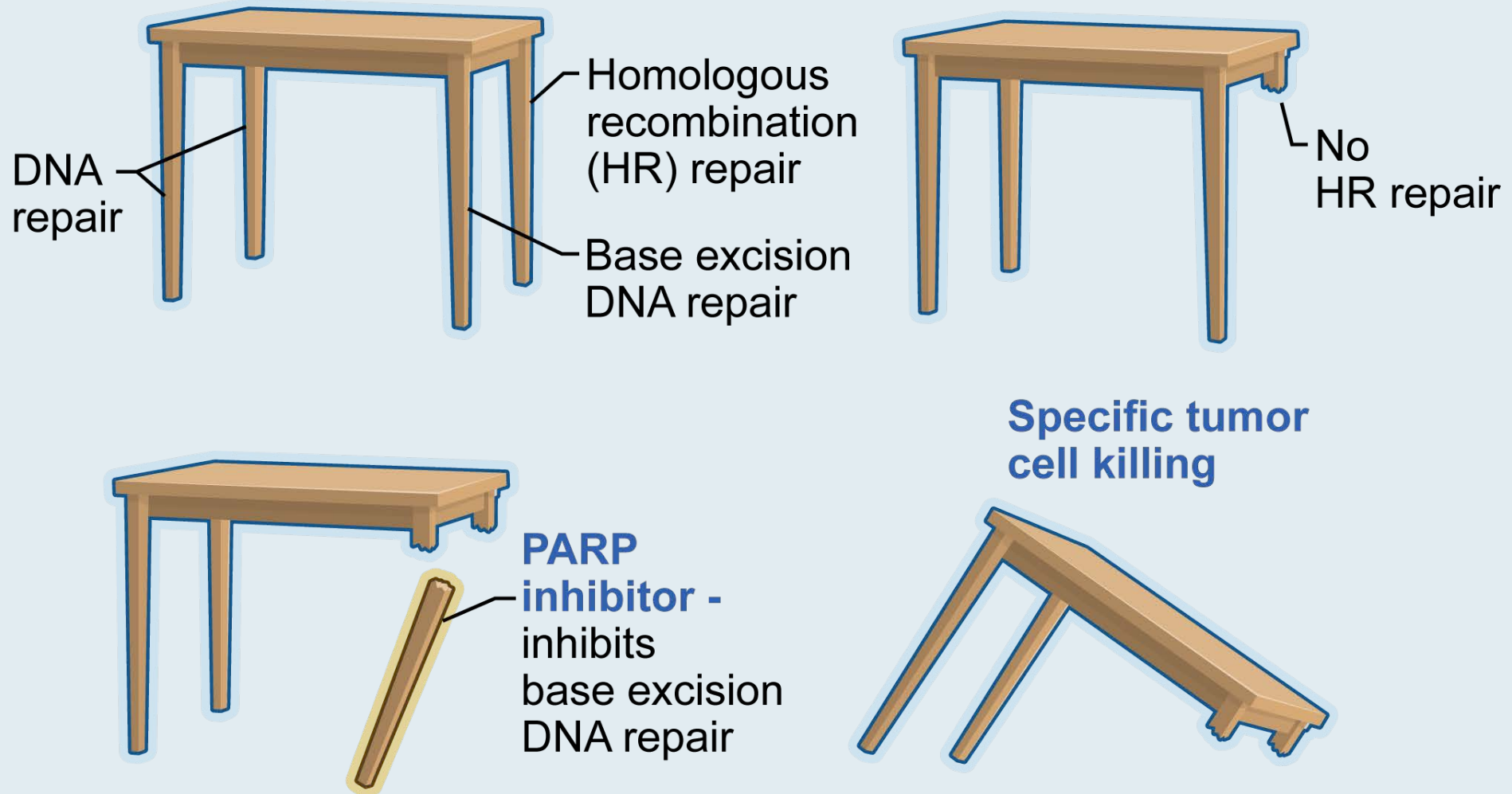
Ms Arn

- Married social worker and mother of a 9-year-old son is diagnosed with high-grade adenocarcinoma of the ovary
- Neoadjuvant carboplatin/paclitaxel x 4 cycles → interval tumor reduction surgery → carboplatin/paclitaxel x 3 cycles
- Maintenance olaparib
- Risk of MDS and/or AML associated with PARP inhibitors

New Advanced Ovarian Cancer



Mechanism of Cell Death from Synthetic Lethality Induced by PARP Inhibition



Current FDA-Approved and Investigational PARP Inhibitors: Differences

PARP inhibitor	FDA approvals	PARP trapping potency	PARPi target selectivity (strength of binding)	Dose
Olaparib	Ovarian, breast, pancreatic, prostate	1	Potent PARP1 inhibitor, less selective	300 mg BID
Rucaparib	Ovarian, prostate	1	Potent PARP1 inhibitor, less selective	600 mg BID
Niraparib	Ovarian	~2	Selective inhibitor of PARP1 and 2	300 mg qd
Veliparib	None	<0.2	Potent PARP1 inhibitor, less selective	400 mg BID
Talazoparib	Breast	~100	Potent PARP1 inhibitor, less selective	1 mg qd

Phase III First-Line PARPi Maintenance Trials

Study Design	SOLO-1 (N=451)	PAOLA-1 (N=612)	PRIMA (N=620)	VELIA (N=1140)
Treatment arms vs placebo	Olaparib (n=260)	Bevacizumab ± Olaparib	Niraparib	Veliparib
Patient Population	<i>BRCA</i> mutation	All comers	All comers	<i>All comers</i>
Treatment Duration	24 months	15 months for Bev 24 months for Olaparib	36 months or until PD	24 months

Phase III OlympiA Trial of Adjuvant Olaparib for High-Risk HER2-Negative Localized Breast Cancer with a BRCA Mutation Crossed the Superiority Boundary for Invasive Disease-Free Survival

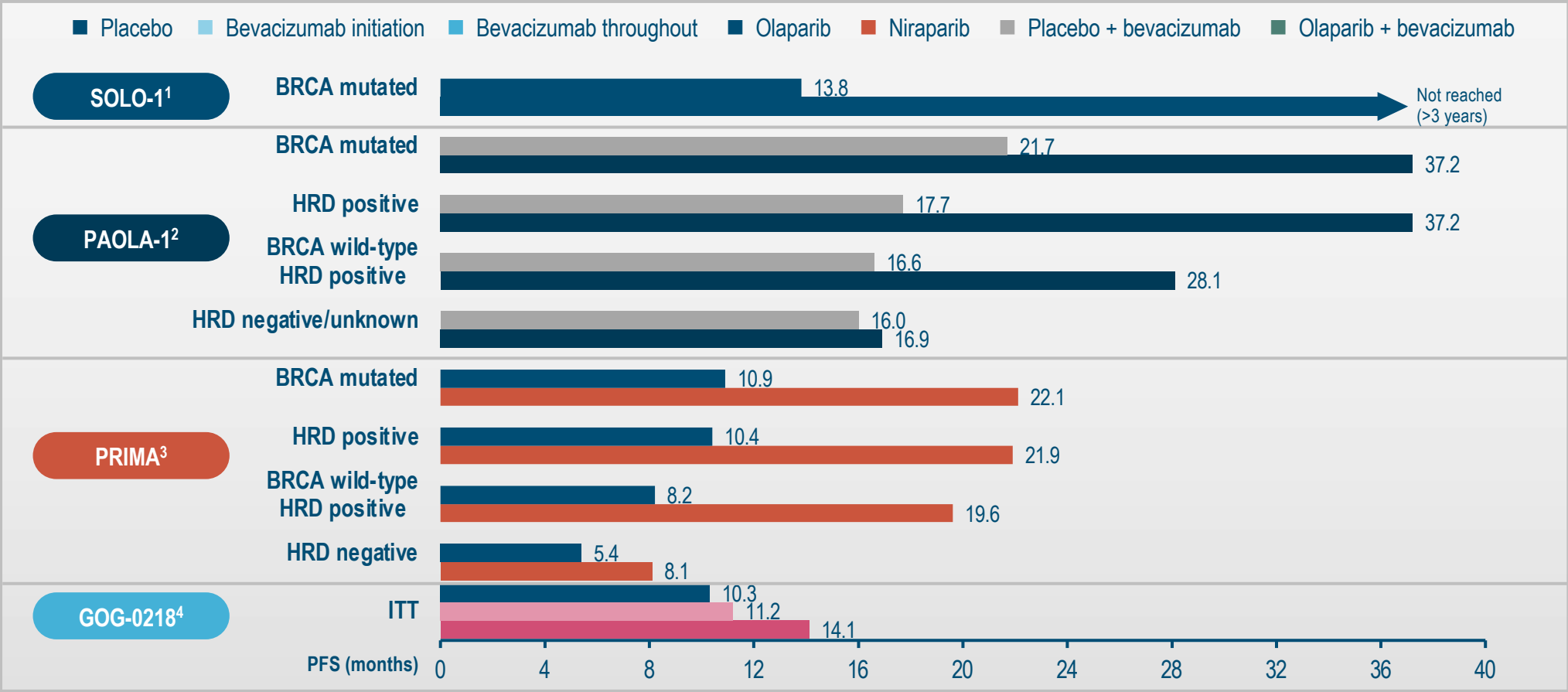
Press Release – February 17, 2021

“The OlympiA Phase III trial of [olaparib] will move to early primary analysis and reporting following a recommendation from the Independent Data Monitoring Committee (IDMC).

Based on the planned interim analysis, the IDMC concluded that the trial crossed the superiority boundary for its primary endpoint of invasive disease-free survival (iDFS) and demonstrated a sustainable, clinically relevant treatment effect for olaparib versus placebo for patients with germline BRCA-mutated (gBRCAm) high-risk human epidermal growth factor receptor 2 (HER2)-negative early breast cancer, and recommend primary analysis now take place.

In its communication, the IDMC did not raise any new safety concerns. The trial will continue to assess the key secondary endpoints of overall survival and distant disease-free survival.”

SUMMARY OF APPROVED MAINTENANCE STUDIES IN THE FIRST-LINE



Comparisons across trials should not be made as trials were not head-to-head.
BRCA, breast cancer gene; HRD, homologous recombination deficiency; ITT, intent-to-treat; PFS, progression-free survival

Which of the following PARP inhibitors is approved to treat recurrent ovarian cancer?

1. Olaparib
2. Niraparib
3. Rucaparib
4. All of the above
5. I don't know

Tolerability of PARP Inhibitors

- Fatigue: usually plateaus after two weeks
- Nausea: may require daily anti-emetics – have used transdermal patch in a few patients
- Hematologic: monitor monthly, may consider weekly for 1st month. Hold dose for grade 2 hematologic events, Reduce dose in half if dose delay
- AML/MDS: refer patient to hematologist if blood counts do not return within 4 weeks. 2% study subjects were diagnosed

SOLO-1 Trial 5-Year Update: Safety Profile

n (%)	Olaparib (n=260)	Placebo (n=130)
Any AE	256 (98)	120 (92)
Grade ≥ 3 AE	103 (40)	25 (19)
Serious AE	55 (21)	17 (13)
AE leading to dose interruption	136 (52)	22 (17)
AE leading to dose reduction	75 (29)	4 (3)
AE leading to treatment discontinuation	30 (12)	4 (3)
MDS/AML	3 (1)	0 (0)
New primary malignancy	7 (3)	5 (4)

**No additional cases of MDS/AML reported;
incidence remained <1.5%**

Follow-up for MDS/AML continued until death due to any cause

Adverse Events: Class Effects and Specific Drug Differences

	Notes	Olaparib	Niraparib	Rucaparib	Talazoparib	Veliparib
Fatigue	50%-70%, mainly Gr1-2	✓	✓	✓	✓	✓
Hematologic AEs						
Anemia	40%-60%	✓	✓	✓	✓	✓--
Thrombocytopenia	Niraparib dose adjustment, based on platelet counts	✓	✓++	✓	✓	✓
Neutropenia	~20%	✓	✓	✓	✓	✓
Gastrointestinal AEs						
Nausea/vomiting	Moderately emetic >30%	✓	✓	✓	✓	✓
Diarrhea	~33%	✓	✓	✓	✓	✓
Laboratory abnormalities						
ALT/AST elevation	5%-10% olaparib, niraparib; 34% rucaparib	✓--	✓--	✓++	✓++	?
Creatinine elevation	10%-12%	✓	✓	✓	NR	NR

NR = not reported

Olaparib PI, rev 5/2020; Niraparib PI, rev 4/2020; Rucaparib PI, rev 5/2020; Talazoparib PI, rev 3/2020;
Madariaga A et al. *Int J Gyn Cancer* 2020 April 9;[Online ahead of print]; Litton JK et al. *NEJM* 2018;379:753-63.

Adverse Events: Class Effects and Specific Drug Differences

	Notes	Olaparib	Niraparib	Rucaparib	Talazoparib	Veliparib
Respiratory disorders						
Dyspnea +/- cough	10%-20%, usually Gr 1-2	✓	✓	✓	✓	NR
Nasopharyngitis	~10%	✓	✓	✓	✓	NR
Nervous system and psychiatric disorders						
Insomnia/headache	10%-25%, usually Gr 1-2	✓	✓	✓	✓	✓
Dermatologic toxicity						
Rash, photosensitivity		<1%	✓	✓++	NR	NR
Cardiovascular toxicity						
Hypertension, tachycardia, palpitation		1%	✓++	NR	NR	NR
Rare AEs						
MDS/AML	~1% of pts	✓	✓	✓	✓	✓

NR = not reported

Olaparib PI, rev 5/2020; Niraparib PI, rev 4/2020; Rucaparib PI, rev 5/2020; Talazoparib PI, rev 3/2020; Madariaga A et al. *Int J Gyn Cancer* 2020 April 9;[Online ahead of print]; Litton JK et al. *NEJM* 2018;379:753-63.

Dose Adjustments for Adverse Events

Olaparib dose reductions	Dose (tablet)
Starting dose	300 mg BID
First dose reduction	250 mg BID
Second dose reduction	200 mg BID

Niraparib dose reductions	Dose
Starting dose	300 mg daily
First dose reduction	200 mg daily
Second dose reduction	100 mg daily

Rucaparib dose reductions	Dose
Starting dose	600 mg twice daily
First dose reduction	500 mg twice daily
Second dose reduction	400 mg twice daily
Third dose reduction	300 mg twice daily

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- Case 9 (Ms Arn): A 37-year-old woman with recurrent cervical cancer, PD-L1-negative

Checkpoint inhibitors are approved for and commonly used in cervical and endometrial cancer but not ovarian cancer.

1. Agree
2. Disagree
3. I don't know

What is the usual sequence of treatment for patients with MSI-high metastatic endometrial cancer?

1. Chemotherapy first line; pembrolizumab second line
2. Chemotherapy first line; pembrolizumab second line for increased PD-L1 levels
3. Chemotherapy first line; pembrolizumab/lenvatinib second line
4. Pembrolizumab first line; chemotherapy second line
5. I don't know

What is the usual sequence of treatment for patients with MS-stable metastatic endometrial cancer?

1. Chemotherapy first line; pembrolizumab second line
2. Chemotherapy first line; pembrolizumab second line for increased PD-L1 levels
3. Chemotherapy first line; pembrolizumab/lenvatinib second line
4. Pembrolizumab first line; chemotherapy second line
5. I don't know

The rapidity of onset and severity of hypertension associated with lenvatinib is greater than that with bevacizumab.

1. Agree
2. Disagree
3. I don't know

Case Presentation – A 68-year-old woman with recurrent endometrial cancer, MSI high



Ms Spickes

- Initially diagnosed with Stage IB, Grade I endometrial cancer and experienced disease recurrence 4 months after completing adjuvant brachytherapy
- Pembrolizumab x 33 cycles → complete response

Case Presentation – An 81-year-old woman with recurrent endometrial cancer, MMR proficient (Part 1)



Ms Arn

- Divorced older woman s/p hysterectomy and adjuvant chemotherapy for Stage IA endometrial cancer experiences metastatic recurrence
- Lenvatinib/pembrolizumab

Case Presentation – An 81-year-old woman with recurrent endometrial cancer, MMR proficient (Part 2)



Ms Arn

- Divorced older woman s/p hysterectomy and adjuvant chemotherapy for Stage IA endometrial cancer experiences metastatic recurrence
- Lenvatinib/pembrolizumab
- ***Supportive care for patients and their ability to maintain independence***

Case Presentation – A 60-year-old woman with recurrent endometrial cancer, MMR deficient



Ms Anastasia

- Originally diagnosed in 2004 with Stage IIIC endometrial cancer and has experienced multiple disease recurrences after initial surgery and chemotherapy
 - Disease recurrences on carboplatin/paclitaxel, RT, tamoxifen and megestrol
- Pembrolizumab on KEYNOTE-158 trial with complete response after 3 cycles
 - Discontinued pembrolizumab in 2018 after 32 cycles
- Currently, 2 years later, she remains NED

Case Presentation – A 50-year-old woman with recurrent endometrial cancer, MMR proficient



Ms Anastasia

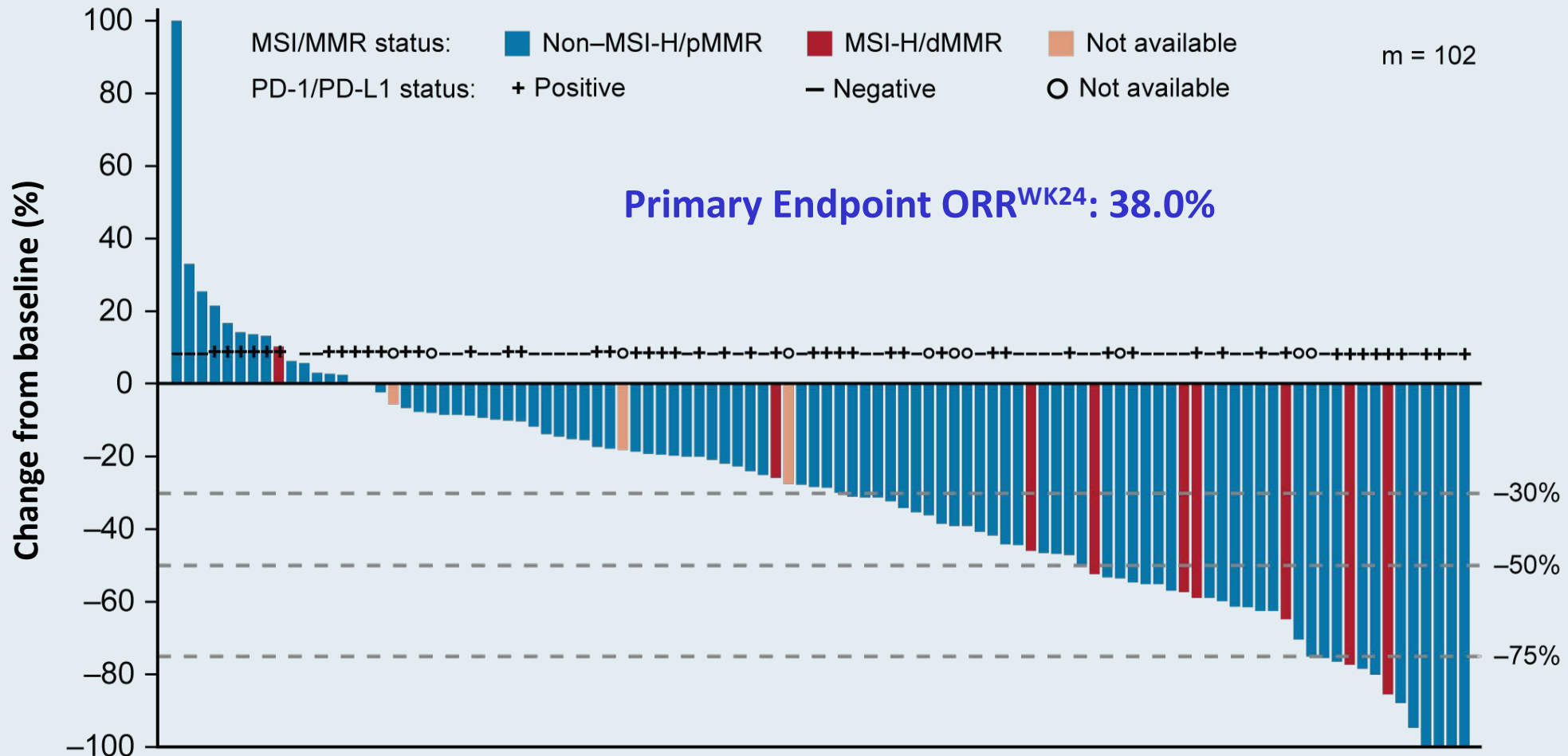
- Grade II endometrioid adenocarcinoma s/p LAVH/BSO/LND → surveillance
- 1 year later: Recurrent disease in lung, ER/PR-positive, MSS
 - Paclitaxel/carboplatin x 6
- 1 year later: Multiple new lung lesions, PD-L1-positive
- Pembrolizumab/lenvatinib
 - Grade 1-2 fatigue and diarrhea

Lenvatinib Plus Pembrolizumab in Patients With Advanced Endometrial Cancer

Vicky Makker, MD¹; Matthew H. Taylor, MD²; Carol Aghajanian, MD¹; Ana Oaknin, MD, PhD³; James Mier, MD⁴; Allen L. Cohn, MD⁵; Margarita Romeo, MD, PhD⁶; Raquel Bratos, MD⁷; Marcia S. Brose, MD, PhD⁸; Christopher DiSimone, MD⁹; Mark Messing, MD¹⁰; Daniel E. Stepan, MD¹¹; Corina E. Dutcus, MD¹²; Jane Wu, PhD¹²; Emmett V. Schmidt, MD, PhD¹³; Robert Orlowski, MD¹³; Pallavi Sachdev, PhD¹²; Robert Shumaker, PhD¹¹; and Antonio Casado Herraiez, MD, PhD¹⁴

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

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

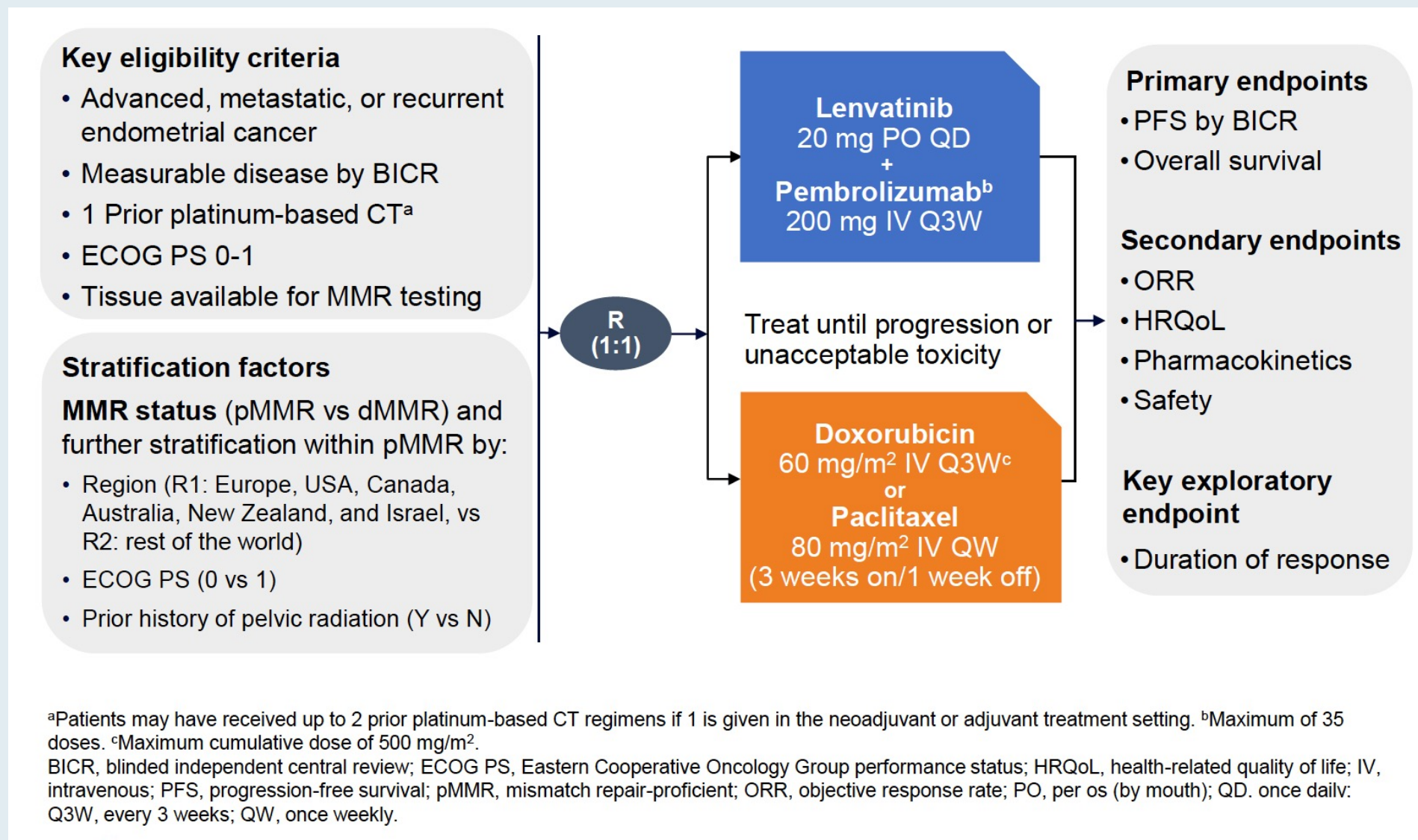


A Multicenter, Open-Label, Randomized, Phase III Study to Compare the Efficacy and Safety of Lenvatinib in Combination with Pembrolizumab versus Treatment of Physician's Choice in Patients with Advanced Endometrial Cancer: Study 309/KEYNOTE-775

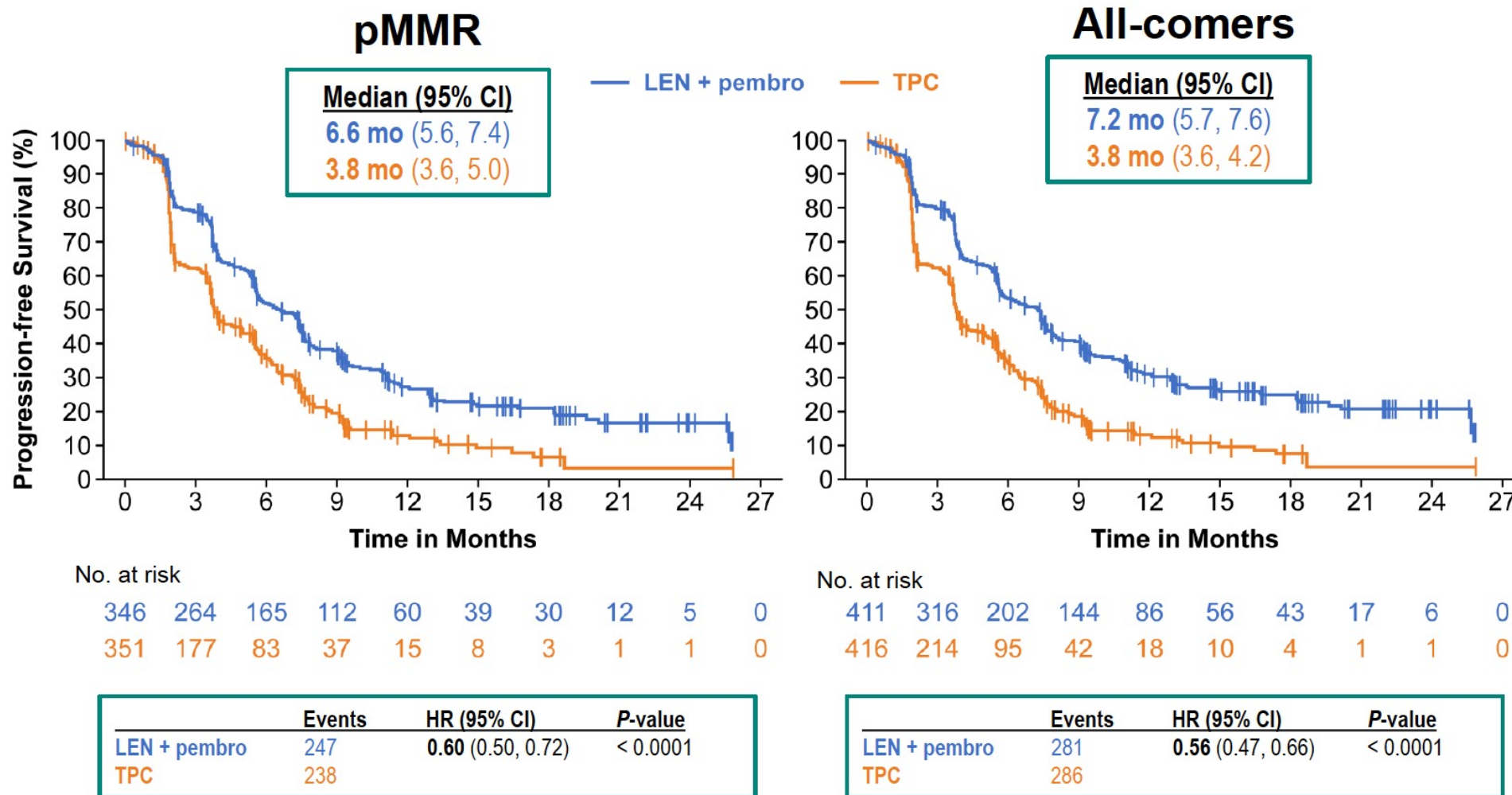
Makker V et al.

SGO 2021;Abstract 11512.

Study 309/KEYNOTE-775: Phase III Trial Schema

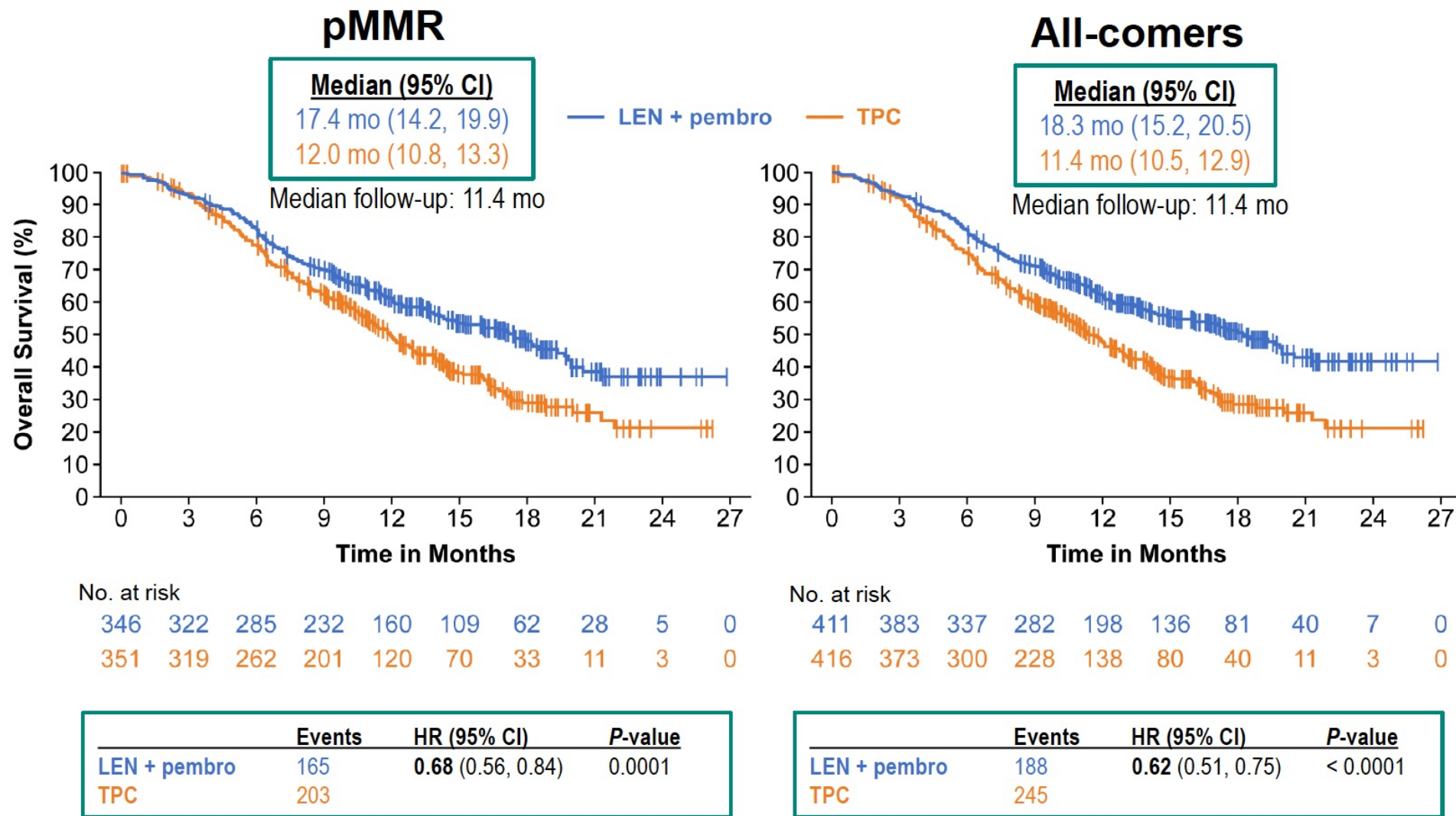


Study 309/KEYNOTE-775: Progression-Free Survival



^aBy BICR per Response Evaluation Criteria in Solid Tumors version 1.1.

Study 309/KEYNOTE-775: Overall Survival

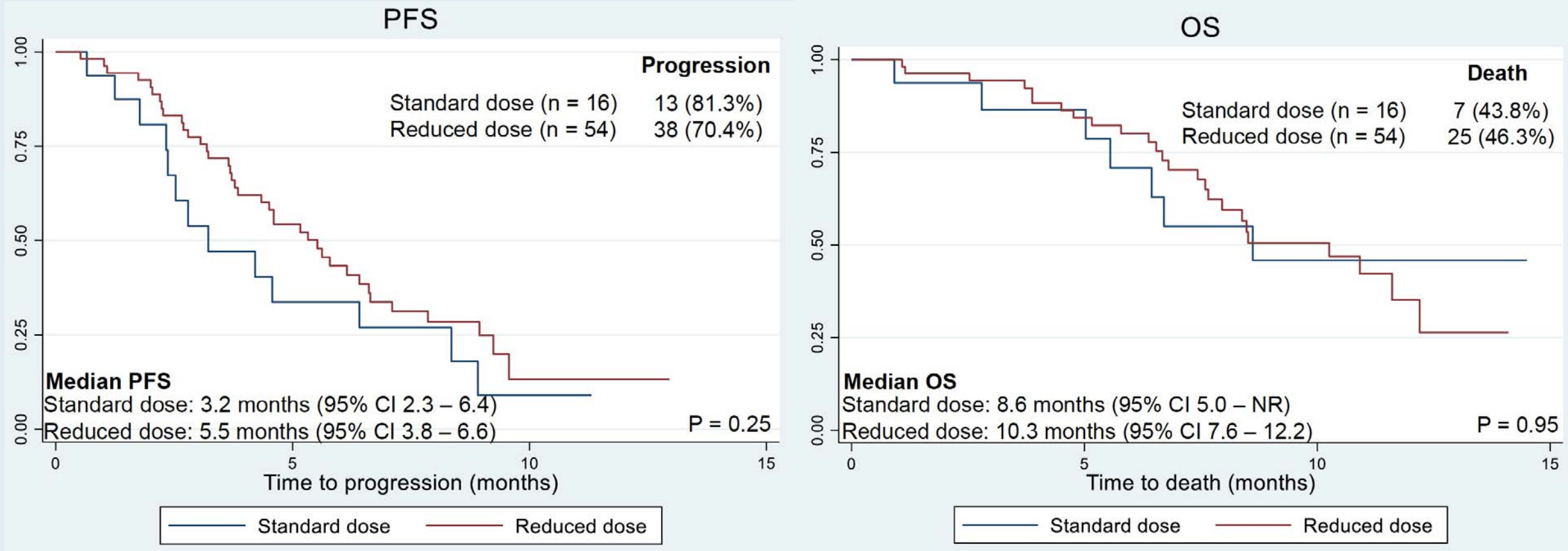


The Use of Pembrolizumab and Lenvatinib Combination Therapy in Endometrial Cancer: An Examination of Toxicity and Treatment Efficacy in Clinical Practice

How JA et al.

SGO 2021;Abstract 10775.

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



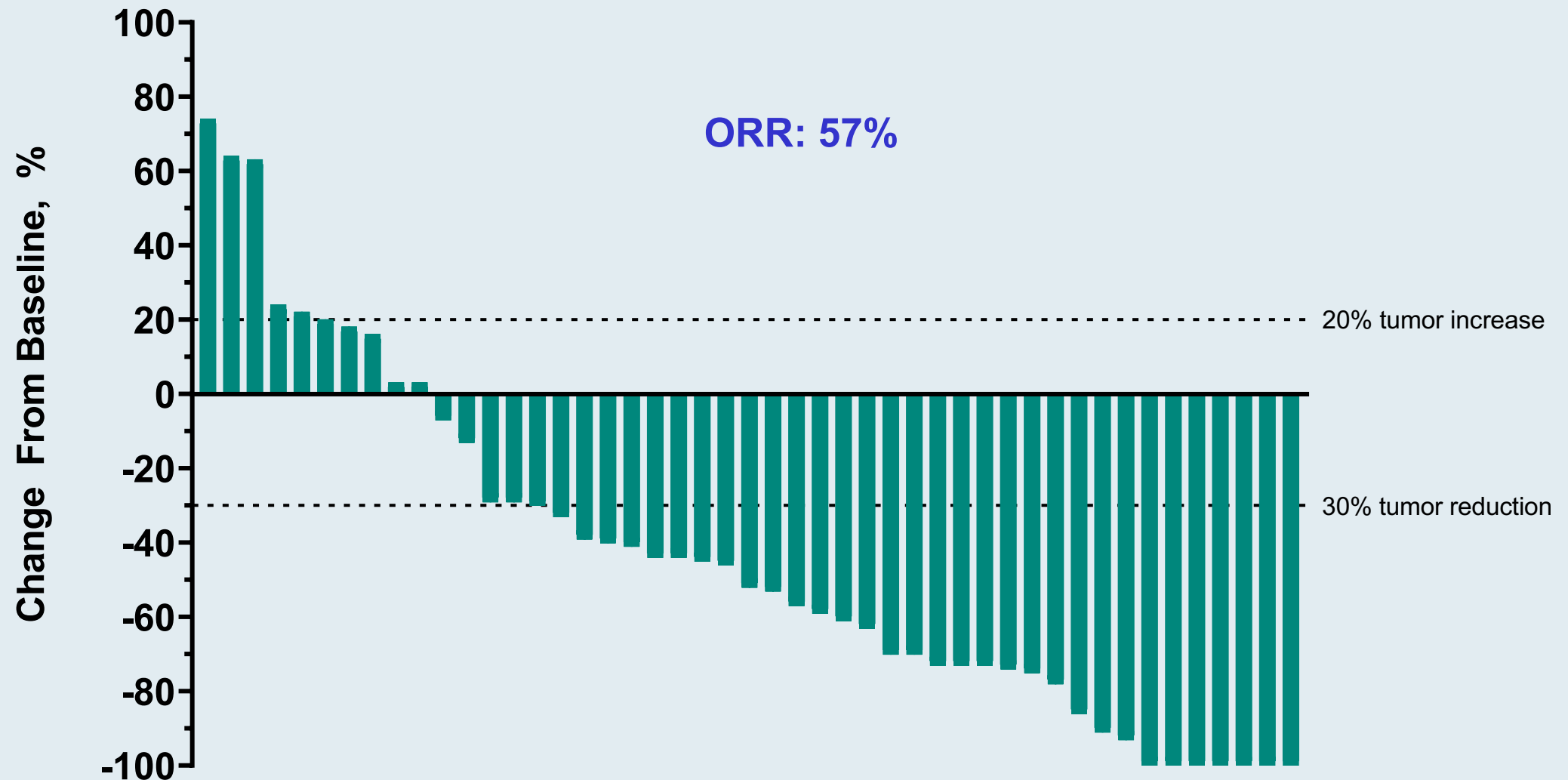
- Reduced starting dose of lenvatinib was associated with longer time to treatment toxicity and fewer dose de-escalations.
- “Published studies and these results may support using lenvatinib at a starting dose of 14 mg daily in clinical practice.”

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

O'Malley D et al.

ESMO 2019;Abstract 1044P.

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



FDA Grants Accelerated Approval to Dostarlimab-gxly for dMMR Endometrial Cancer

Press Release – April 22, 2021

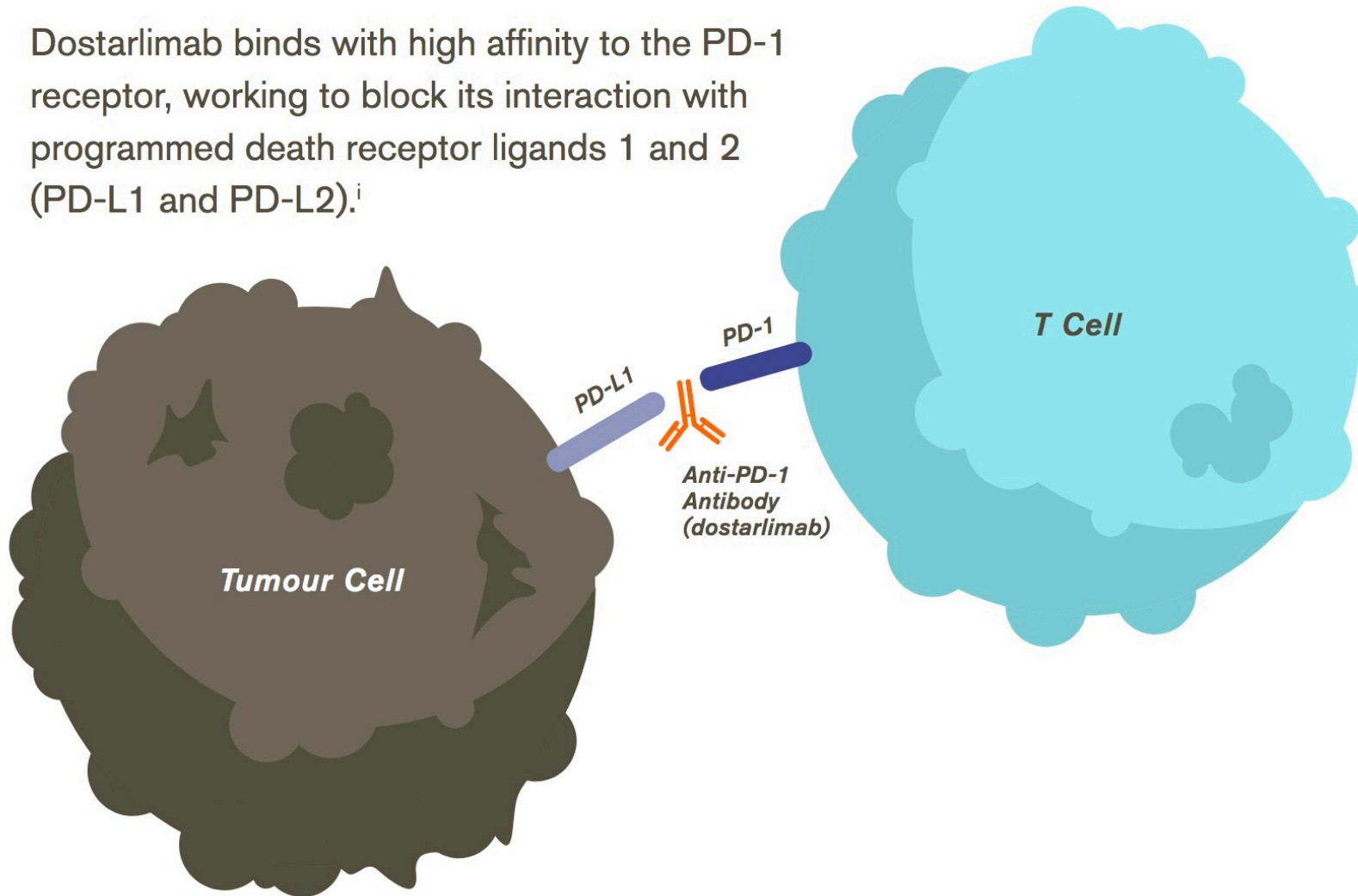
“The Food and Drug Administration granted accelerated approval to dostarlimab-gxly for adult patients with mismatch repair deficient (dMMR) recurrent or advanced endometrial cancer, as determined by an FDA-approved test, that has progressed on or following a prior platinum-containing regimen.


Efficacy was evaluated based on cohort (A1) in GARNET Trial (NCT02715284), a multicenter, multicohort, open-label trial in patients with advanced solid tumors. The efficacy population consisted of 71 patients with dMMR recurrent or advanced endometrial cancer who progressed on or after a platinum-containing regimen. Patients received dostarlimab-gxly, 500 mg intravenously, every 3 weeks for 4 doses followed by 1,000 mg intravenously every 6 weeks.

The main efficacy endpoints were overall response rate (ORR) and duration of response (DOR), as assessed by blinded independent central review (BICR) according to RECIST 1.1. Confirmed ORR was 42.3%. The complete response rate was 12.7% and partial response rate was 29.6%. Median DOR was not reached, with 93.3% of patients having durations ≥ 6 months (range: 2.6 to 22.4 months, ongoing at last assessment).”

Dostarlimab Mechanism of Action

Dostarlimab binds with high affinity to the PD-1 receptor, working to block its interaction with programmed death receptor ligands 1 and 2 (PD-L1 and PD-L2).ⁱ





Research

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

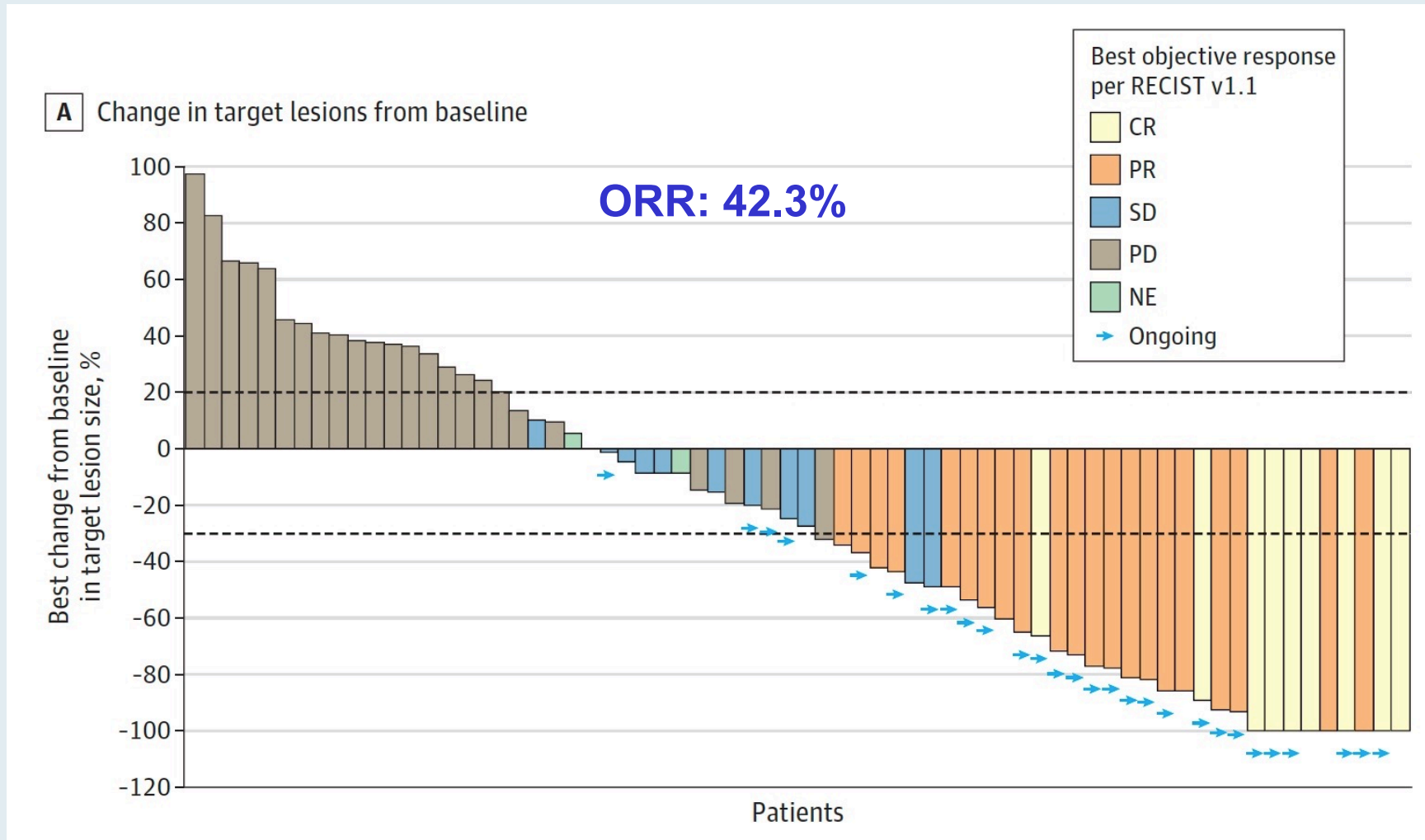
JAMA Oncology | **Original Investigation**

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

A Nonrandomized Phase 1 Clinical Trial

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

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



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

Ana Oaknin,¹ Lucy Gilbert,² Anna V. Tinker,³ Renaud Sabatier,⁴ Valentina Boni,⁵ David M. O'Malley,⁶ Sharad Ghamande,⁷ Linda Duska,⁸ Prafull Ghatage,⁹ Wei Guo,¹⁰ Ellie Im,¹⁰ **Bhavana Pothuri**¹¹

¹Vall d'Hebron Institute of Oncology (VHIO), Vall d'Hebron University Hospital, Barcelona, Spain; ²McGill University Health Centre-RI, Montreal, Quebec, Canada; ³BC Cancer, Vancouver, British Columbia, Canada; ⁴Department of Medical Oncology, Institut Paoli Calmettes, Aix-Marseille University, Marseille, France; ⁵Centro Integral Oncológico Clara Campal, Hospital Universitario HM Sanchinarro, Madrid, Spain; ⁶James Comprehensive Cancer Center, The Ohio State University, Columbus, OH, USA; ⁷Georgia Cancer Center, Augusta University, Augusta, GA, USA; ⁸Emily Couric Clinical Cancer Center, University of Virginia, Charlottesville, VA, USA; ⁹Department of Gynecological Oncology, University of Calgary, Calgary, Alberta, Canada; ¹⁰GlaxoSmithKline, Waltham, MA, USA; ¹¹Department of Obstetrics and Gynecology, New York University, New York, NY, USA

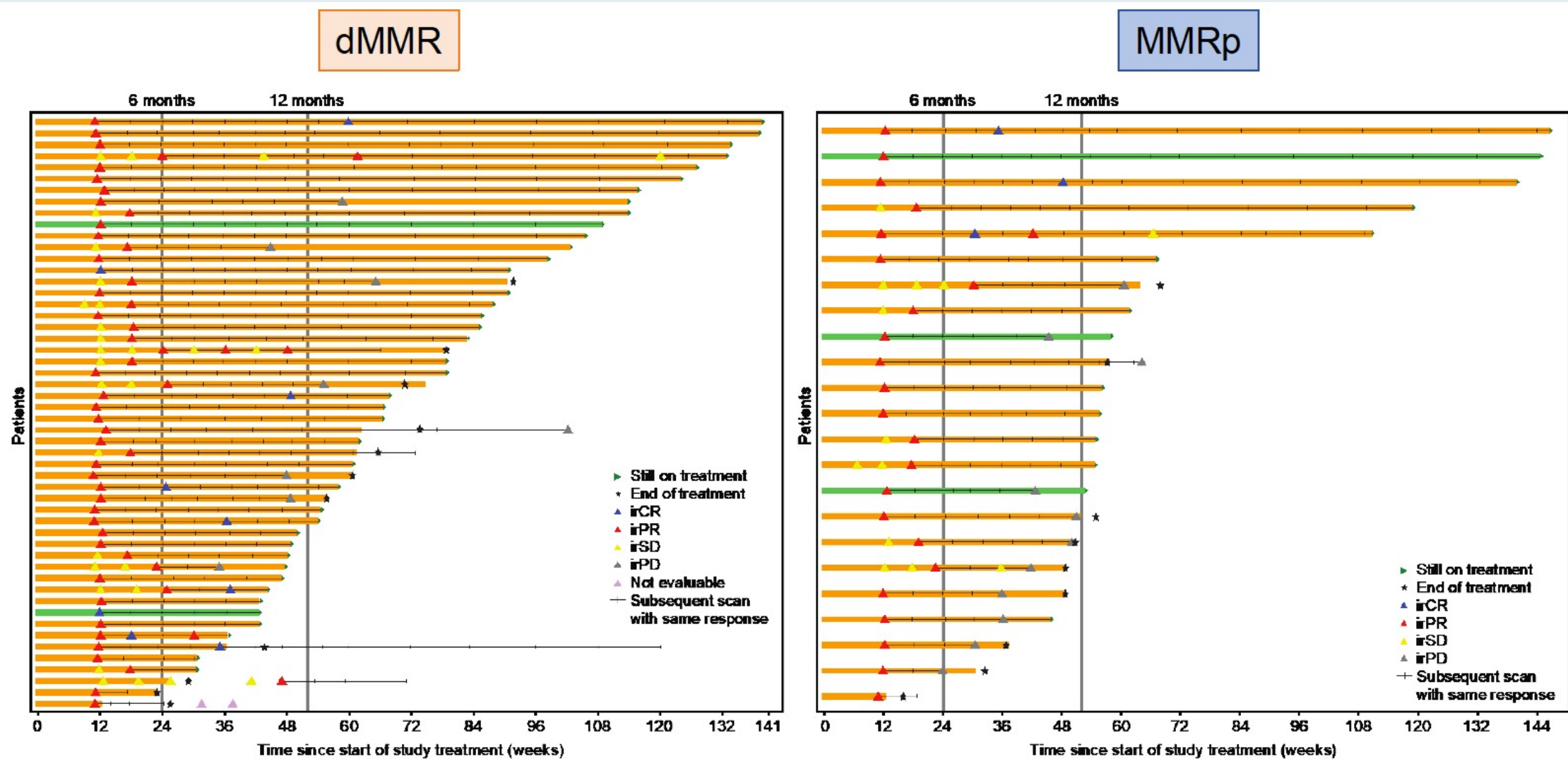
Poster #10417

GARNET Study of Dostarlimab: Immune-Related Secondary Endpoints

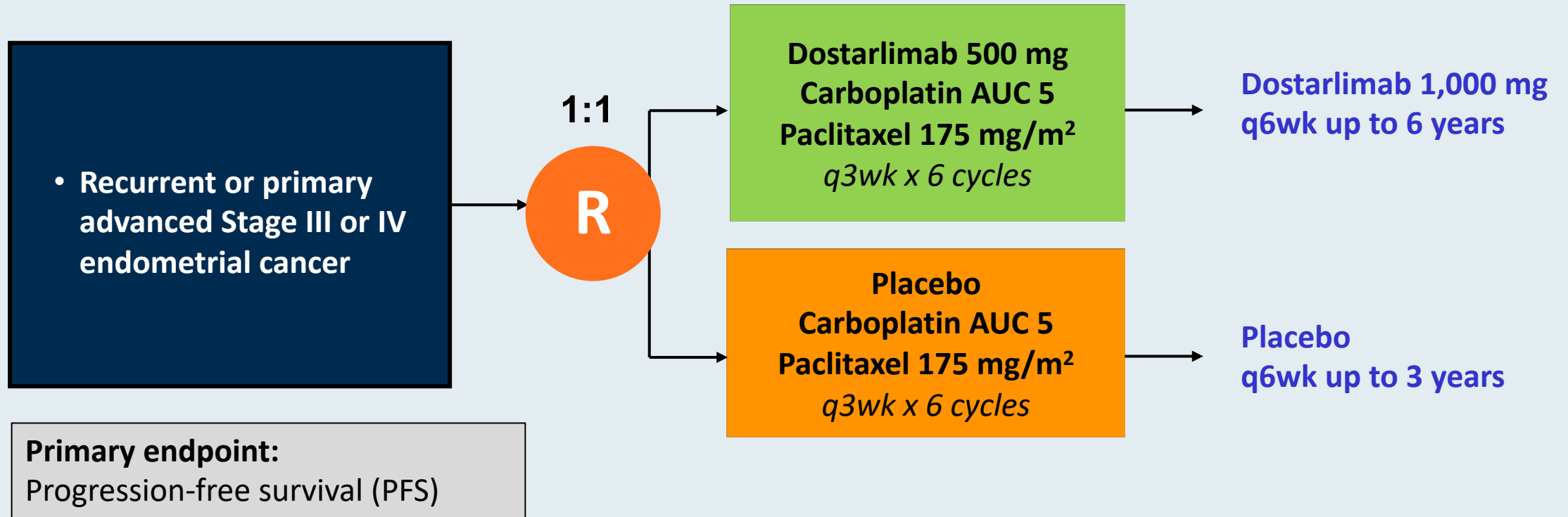
(irRECIST by investigator assessment)		
Variable	dMMR N=110	MMRp N=144
Follow-up, median (range), months	16.5 (0.03–30.6)	13.7 (0.03–33.1)
irORR, n (%)	50 (45.5)	20 (13.9)
irCR	7 (6.4)	3 (2.1)
irPR	43 (39.1)	17 (11.8)
irSD	20 (18.2)	41 (28.5)
irPD	36 (32.7)	63 (43.8)
NE	4 (3.6)	20 (13.9)
irDCR, ^a n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

^aIncludes CR, PR, and SD ≥12 weeks; ^bOnly includes responders.

GARNET: Duration of Response with Dostarlimab



ENGOT-EN6/NSGO-RUBY Phase III Schema of Dostarlimab



Agenda

Module 1: Ovarian Cancer

- Case 1 (Ms Spickes): A 52-year-old woman with Stage IIIA2 ovarian cancer and a somatic BRCA2 mutation
- Case 2 (Ms Anastasia): A 59-year-old woman with BRCA wild-type, HRD-proficient ovarian cancer
- Case 3 (Ms Arn): A 51-year-old woman with Stage IIIC ovarian cancer and a germline BRCA1 mutation

Module 2: Endometrial Cancer

- Case 4 (Ms Spickes): A 68-year-old woman with recurrent endometrial cancer, MSI high
- Case 5 (Ms Arn): An 81-year-old woman with recurrent endometrial cancer, MMR proficient
- Case 6 (Ms Anastasia): A 60-year-old woman with recurrent endometrial cancer, MMR deficient
- Case 7 (Ms Anastasia): A 50-year-old woman with recurrent endometrial cancer, MMR proficient

Module 3: Cervical Cancer – Relapsed Disease

- Case 8 (Ms Arn): A 58-year-old woman with recurrent cervical cancer, PD-L1-positive
- Case 9 (Ms Arn): A 37-year-old woman with recurrent cervical cancer, PD-L1-negative

Pembrolizumab is approved as second-line treatment for metastatic cervical cancer...

1. In all patients
2. In patients with elevated PD-L1 levels
3. In combination with chemotherapy
4. All of the above
5. I don't know

Checkpoint inhibitors frequently cause low-grade rash or other dermatologic side effects.

1. Agree
2. Disagree
3. I don't know

One of the most common autoimmune toxicities associated with checkpoint inhibitors is thyroid dysfunction.

1. Agree
2. Disagree
3. I don't know

Case Presentation – A 58-year-old woman with recurrent cervical cancer, PD-L1-positive



Ms Arn

- Initially diagnosed with Stage IB2 cervical cancer and completed chemoradiation followed by 4 cycles of carboplatin/paclitaxel
- Disease recurrence 2 years later → gemcitabine/cisplatin → PD
- PD-L1-positive → pembrolizumab x 2 years with complete response

Ms Anastasia: Screening and early diagnosis of cervical cancer



Case Presentation – A 37-year-old woman with recurrent cervical cancer, PD-L1-negative



Ms Arn

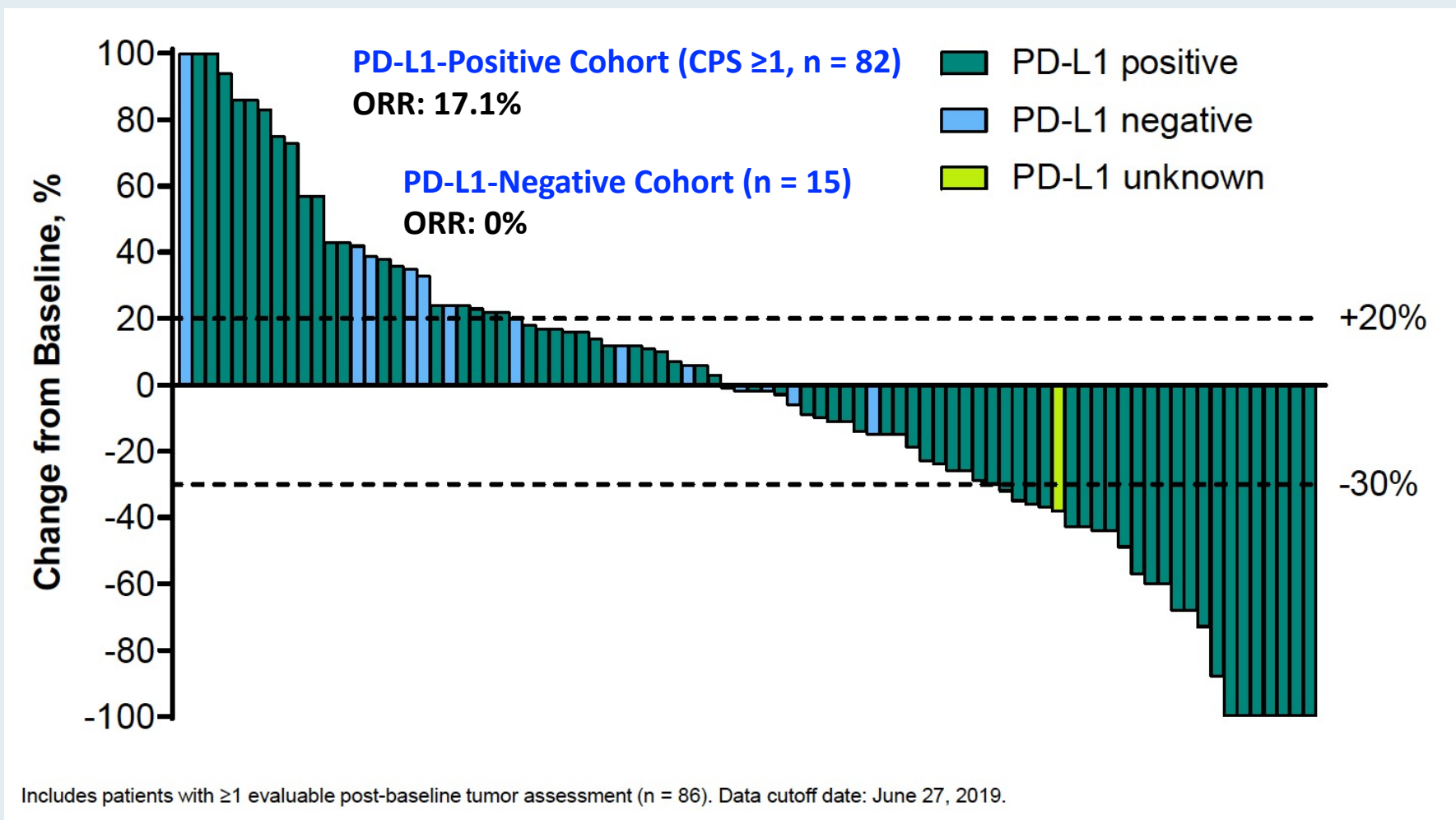
- Young mother of 2 children initially diagnosed with PD-L1-negative, Stage IIIB cervical cancer who completed chemoradiation
- Multiple metastatic disease recurrences in the lung and spine treated with chemotherapy and radiation; poor performance status
- Enrolled in clinical trial of tisotumab vedotin with good response and symptom improvement

Pembrolizumab Treatment of Advanced Cervical Cancer: Updated Results from the Phase 2 KEYNOTE-158 Study

Hyun Cheol Chung¹, Jean-Pierre Delord², Ruth Perets³, Antoine Italiano⁴, Ronnie Shapira-Frommer⁵, Lyudmila Manzuk⁶, Sarina A. Piha-Paul⁷, Lei Xu⁸, Fan Jin⁸, Kevin Norwood⁸, Alexandra Leary⁹

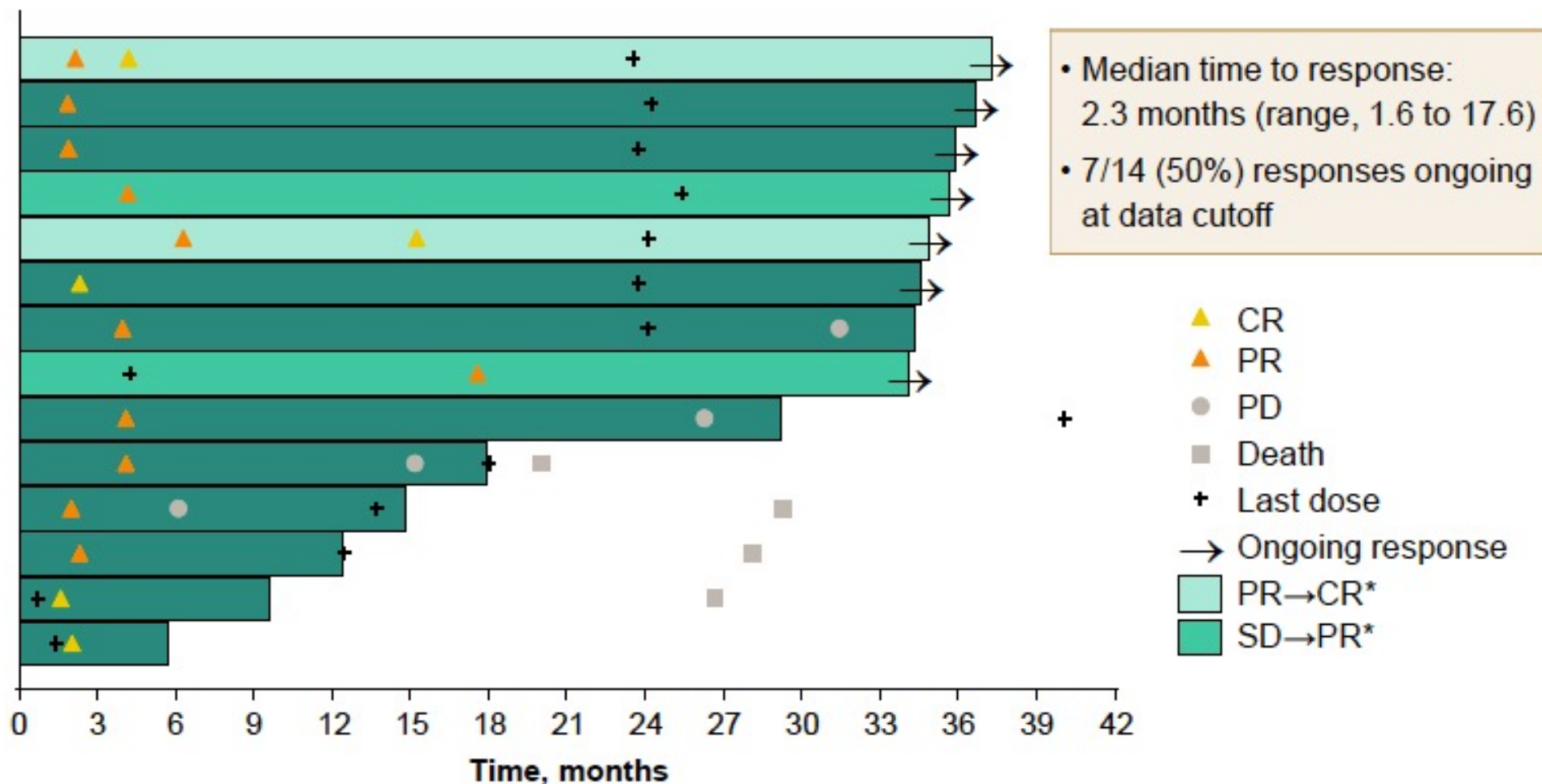
¹Yonsei Cancer Center, Yonsei University College of Medicine, Seoul, South Korea; ²Institut Claudius Regaud, Toulouse, France; ³Rambam Health Care Campus, Haifa, Israel; ⁴Institut Bergonie, Bordeaux, France; ⁵Sheba Medical Center, Ramat-Gan, Israel; ⁶N.N. Blokhin NMRCO, Moscow, Russia; ⁷MD Anderson Cancer Center, Houston, TX, USA; ⁸Merck & Co., Inc., Kenilworth, NJ, USA; ⁹Gustave Roussy, Villejuif, France

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

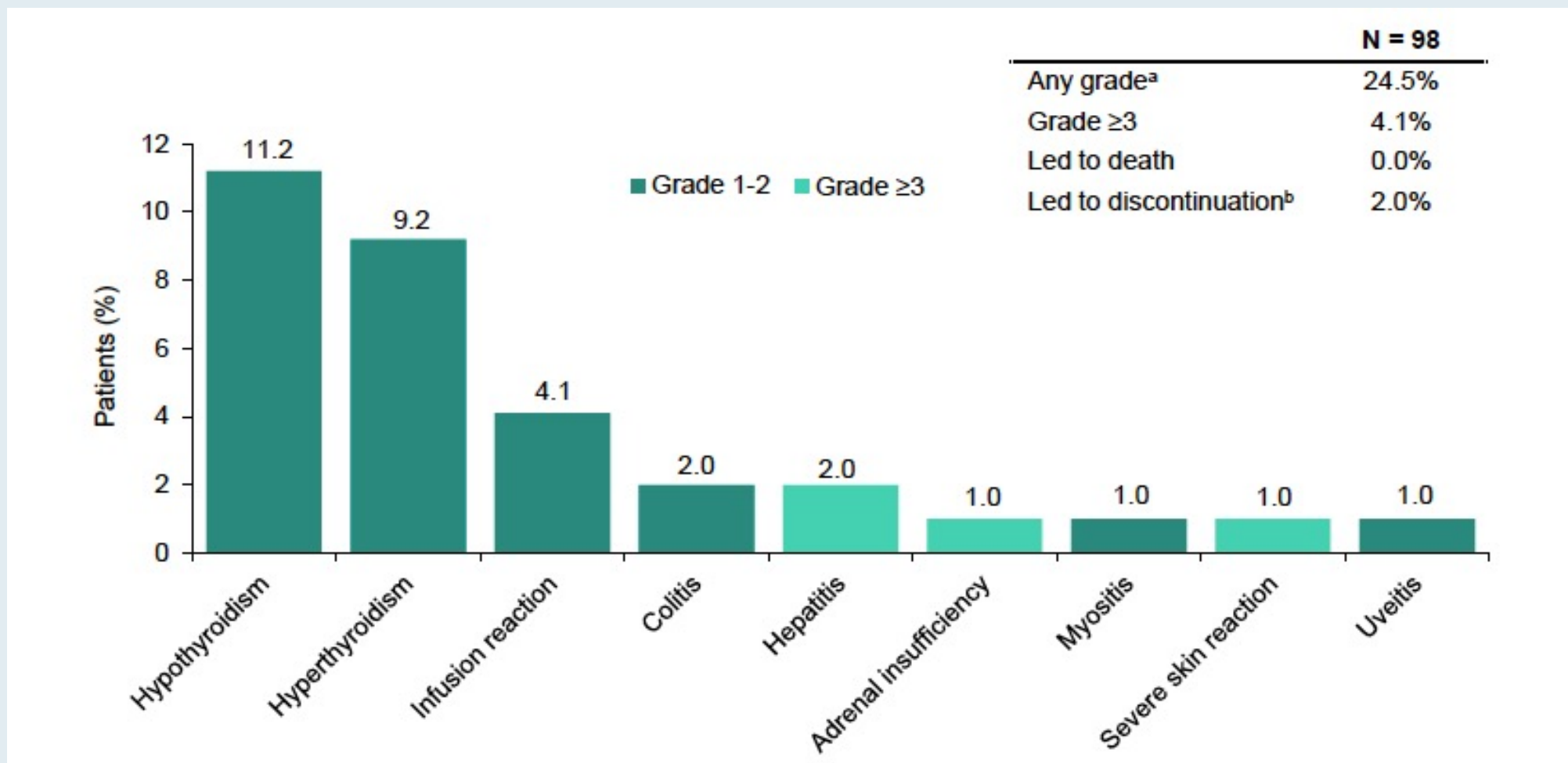


Combined Positive Score (CPS) = PD-L1+ cells (tumor cells, lymphocytes, macrophages) / Total number of tumor cells x 100

Phase II KEYNOTE-158: Time to Response and Duration of Response with Pembrolizumab



Phase II KEYNOTE-158: Immune-Mediated Adverse Events and Infusion Reactions



Includes events of any grade that occurred in ≥ 1 patient

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

Press Release – March 15, 2021

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

This is the largest Phase 3 randomized clinical trial in advanced cervical cancer and included women (median age: 51 years) with either squamous cell carcinoma or adenocarcinoma. Patients were randomized to receive cemiplimab monotherapy (350 mg every three weeks) or an investigator’s choice of commonly used chemotherapy (pemetrexed, vinorelbine, topotecan, irinotecan or gemcitabine).”

Phase III Trial of Cemiplimab Monotherapy in Advanced Cervical Cancer Halted Early for Positive Overall Survival Result (Continued)

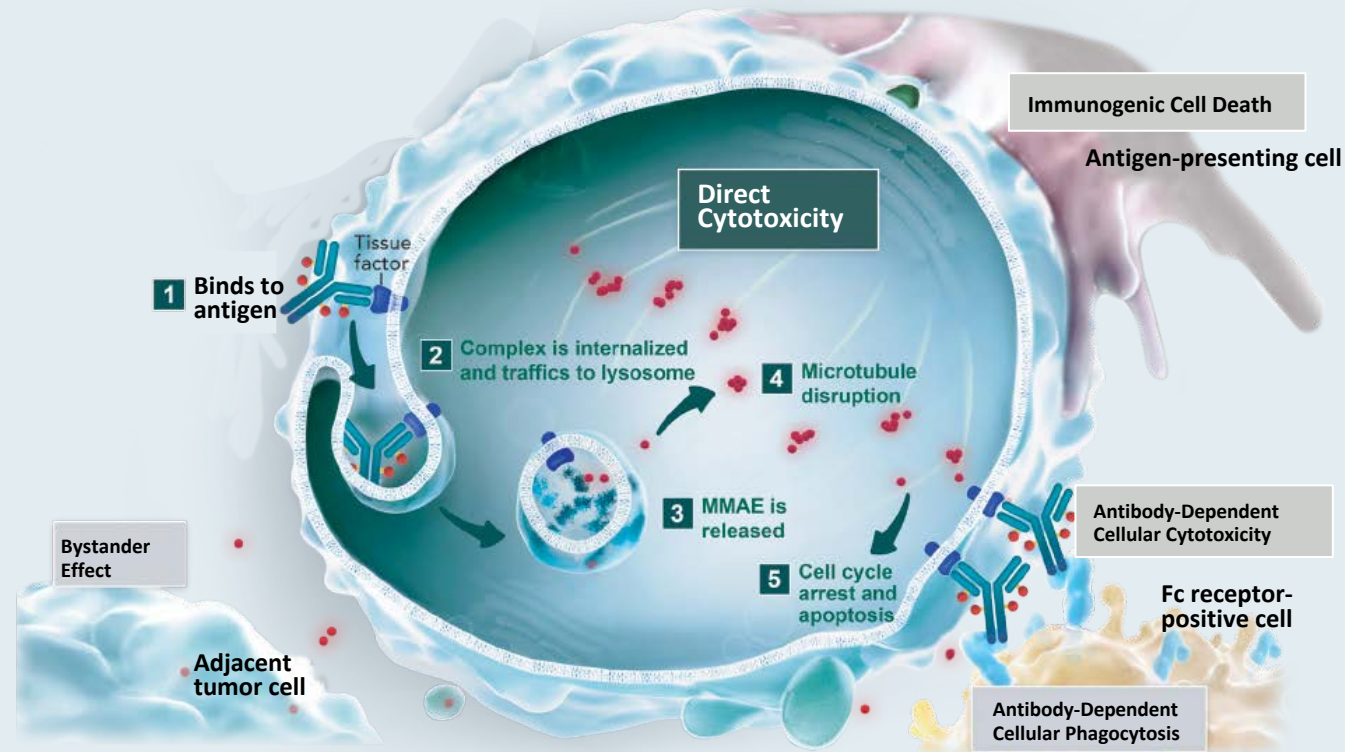
Press Release – March 15, 2021

“Compared to chemotherapy, patients receiving cemiplimab experienced:

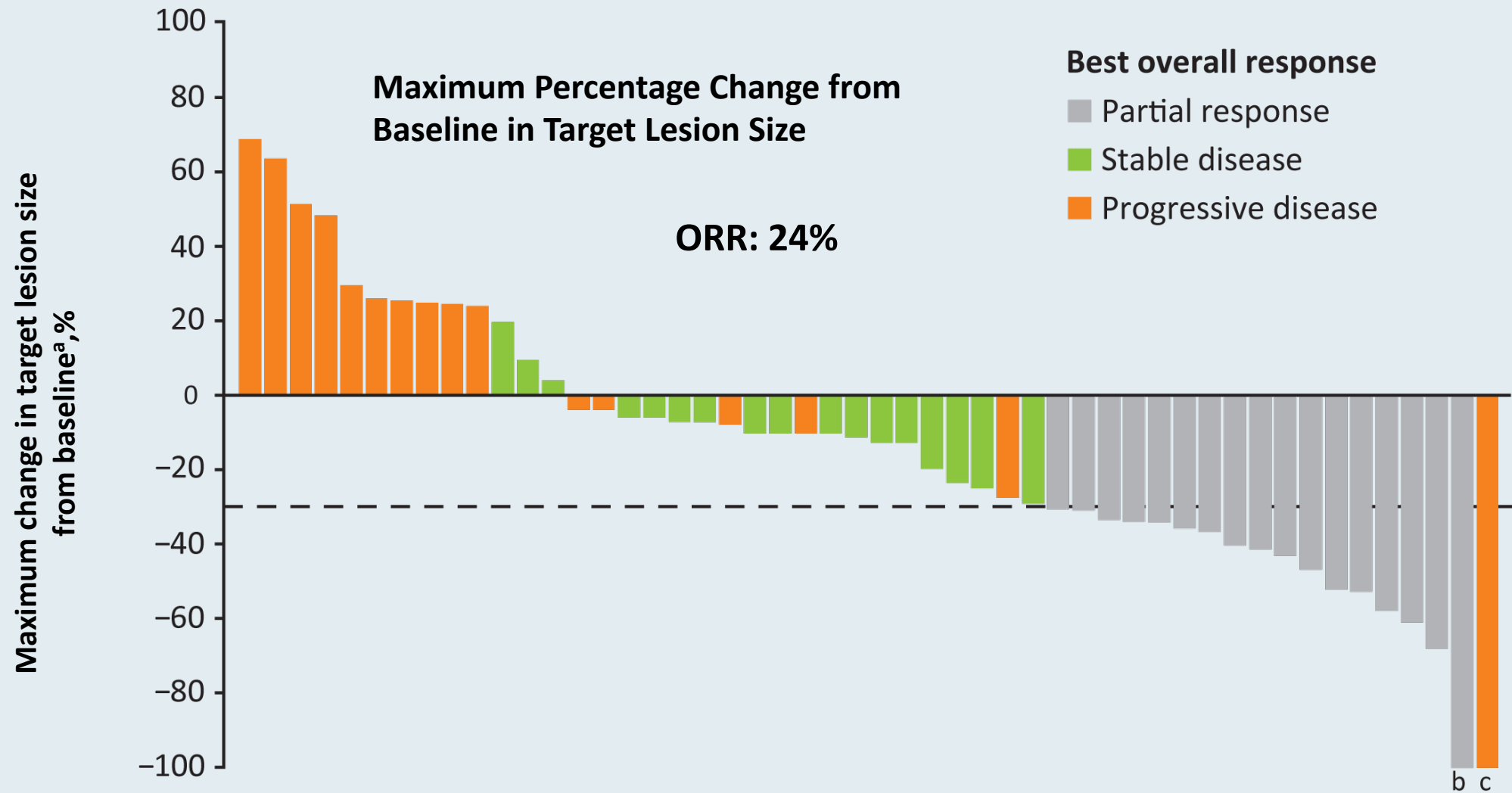
- **Total population:** 31% reduced risk of death
 - Median 12.0 months survival for cemiplimab (n=304) compared to 8.5 months for chemotherapy (n=304) (HR: 0.69; p<0.001)
- **Squamous cell carcinoma:** 27% reduced risk of death
 - Median 11.1 months survival for cemiplimab (n=239) compared to 8.8 months for chemotherapy (n=238) (HR: 0.73; p=0.003)
- **Adenocarcinoma:** 44% reduced risk of death
 - Median 13.3 months survival for cemiplimab (n=65) compared to 7.0 months for chemotherapy (n=66) (HR: 0.56; p<0.005)”

Mechanism of Action of Tisotumab Vedotin

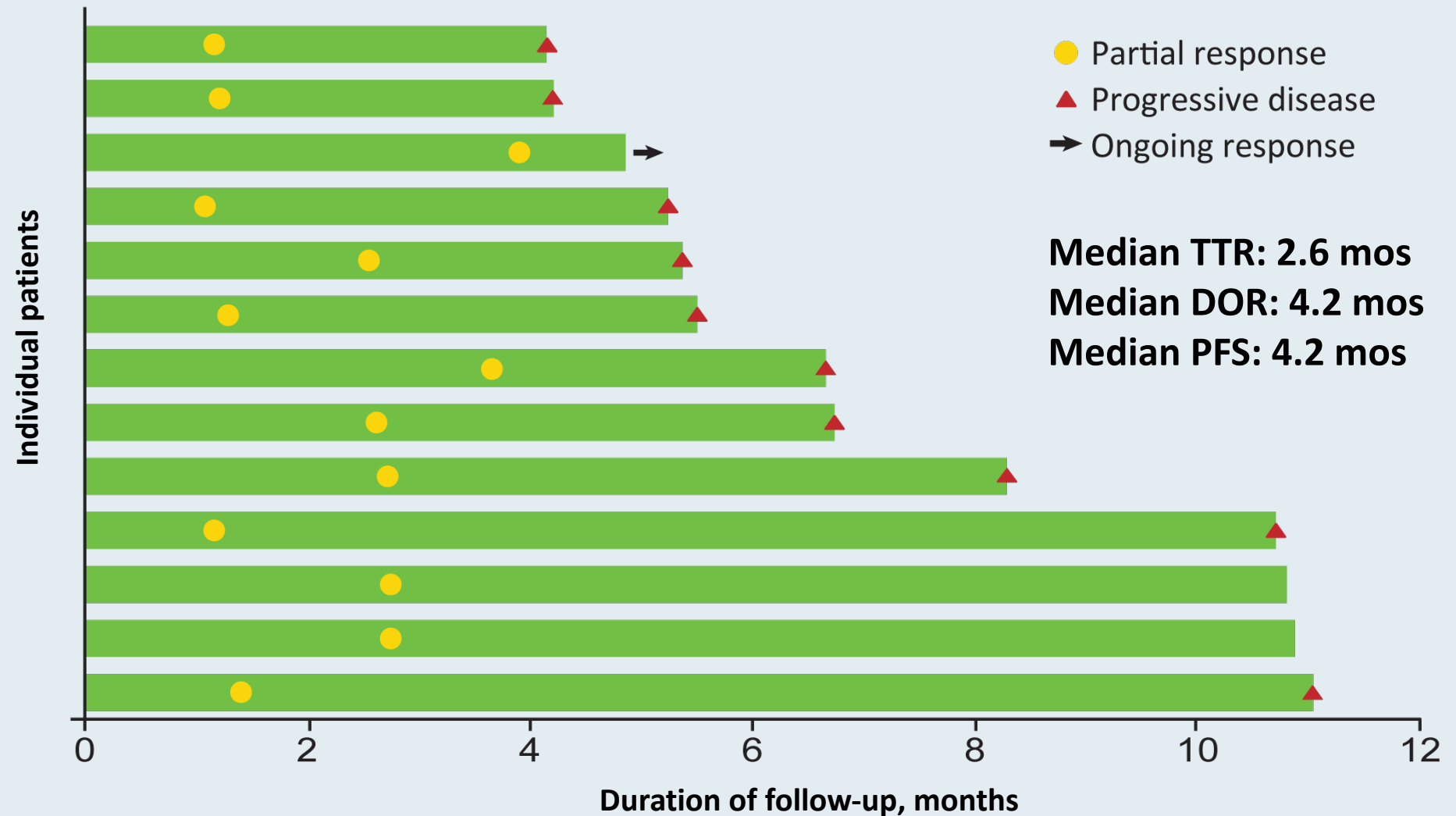
- Tissue factor (TF) is aberrantly expressed in a broad range of solid tumours, including cervical cancer,^{1,2} and TF expression has been associated with higher tumour stage and grade, higher metastatic burden and poor prognosis²
- TF expression in cervical cancer makes TF a novel target for patients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

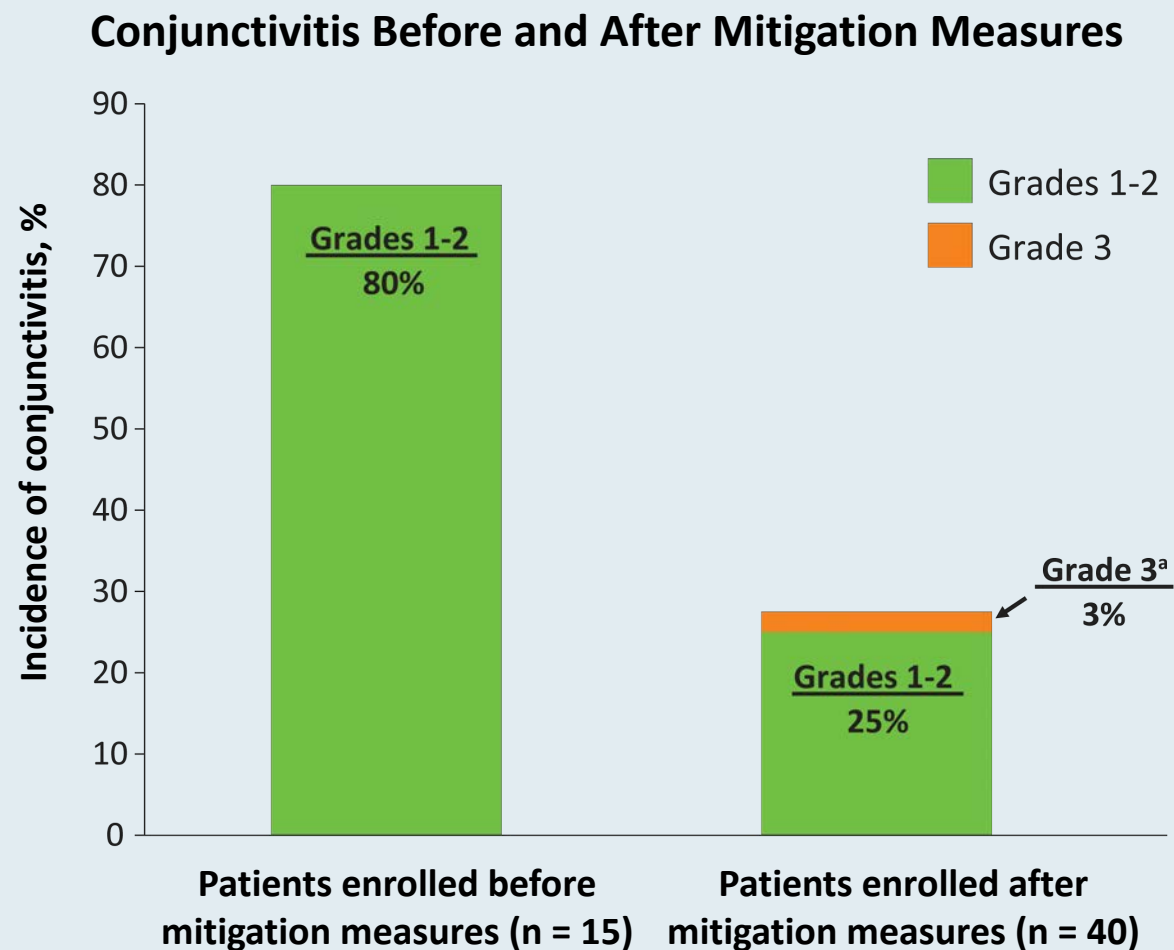


innovaTV 201: Time to Response and Duration of Response in Patients with a Confirmed PR to TV



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

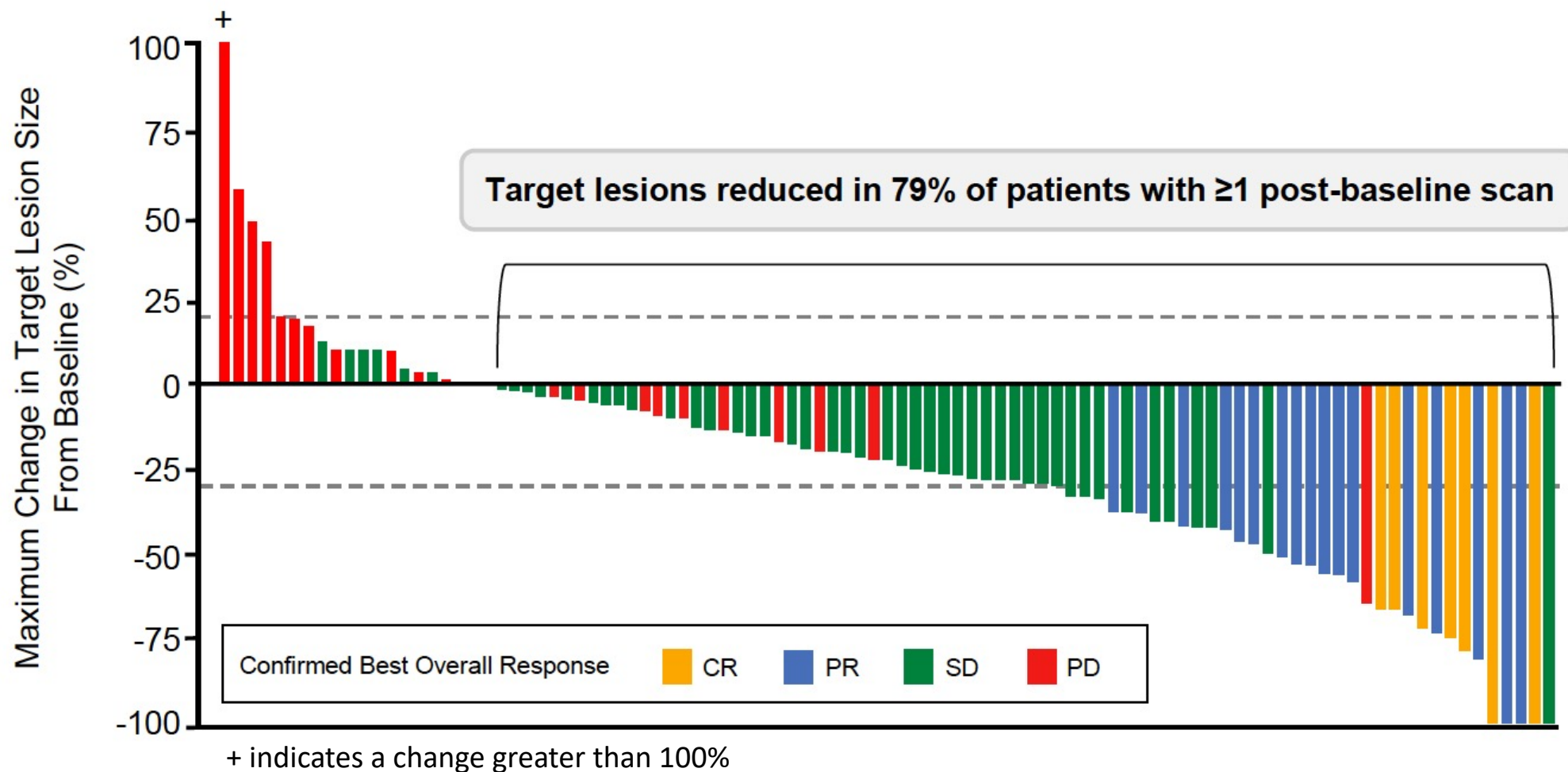


Tisotumab Vedotin in Previously Treated Recurrent or Metastatic Cervical Cancer: Results from the Phase II innovaTV 204/GOG-3023/ENGOT-cx6 Study

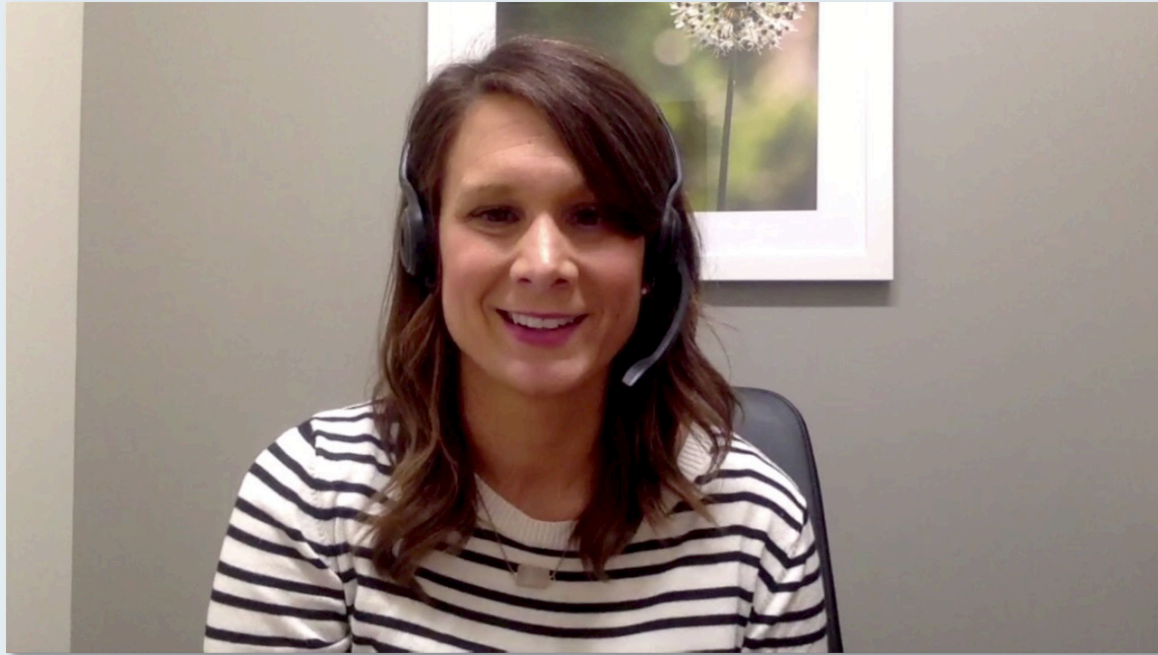
Coleman RL et al.

ESMO 2020;Abstract LBA32.

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



Reflections on patient care in oncology



Ms Arn



Ms Spickes



Paula J Anastasia, NP MN AOCN



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13th Annual Oncology Grand Rounds

*A Complimentary NCPD Live Webinar Series
Held During the 46th Annual ONS Congress*

Urothelial Bladder Carcinoma

Wednesday, April 28, 2021

12:00 PM – 1:00 PM ET

Medical Oncologists

Elisabeth I Heath, MD

Daniel P Petrylak, MD

Oncology Nurse Practitioners

Monica Averia, MSN, AOCNP, NP-C

Kathy D Burns, RN, MSN, AGACNP-BC, OCN

Moderator

Neil Love, MD

Thank you for joining us!

***NCPD credit information will be emailed
to each participant shortly.***