

**Year in Review — Clinical Investigators Provide
Perspectives on the Most Relevant New
Publications, Data Sets and Advances in Oncology:
Gynecologic Cancers**

**Tuesday, January 12, 2021
5:00 PM – 6:00 PM ET**

Faculty

**Robert L Coleman, MD
Richard T Penson, MD, MRCP**

Moderator

Neil Love, MD

Commercial Support

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

Dr Love — Disclosures

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

Research To Practice CME Planning Committee Members, Staff and Reviewers

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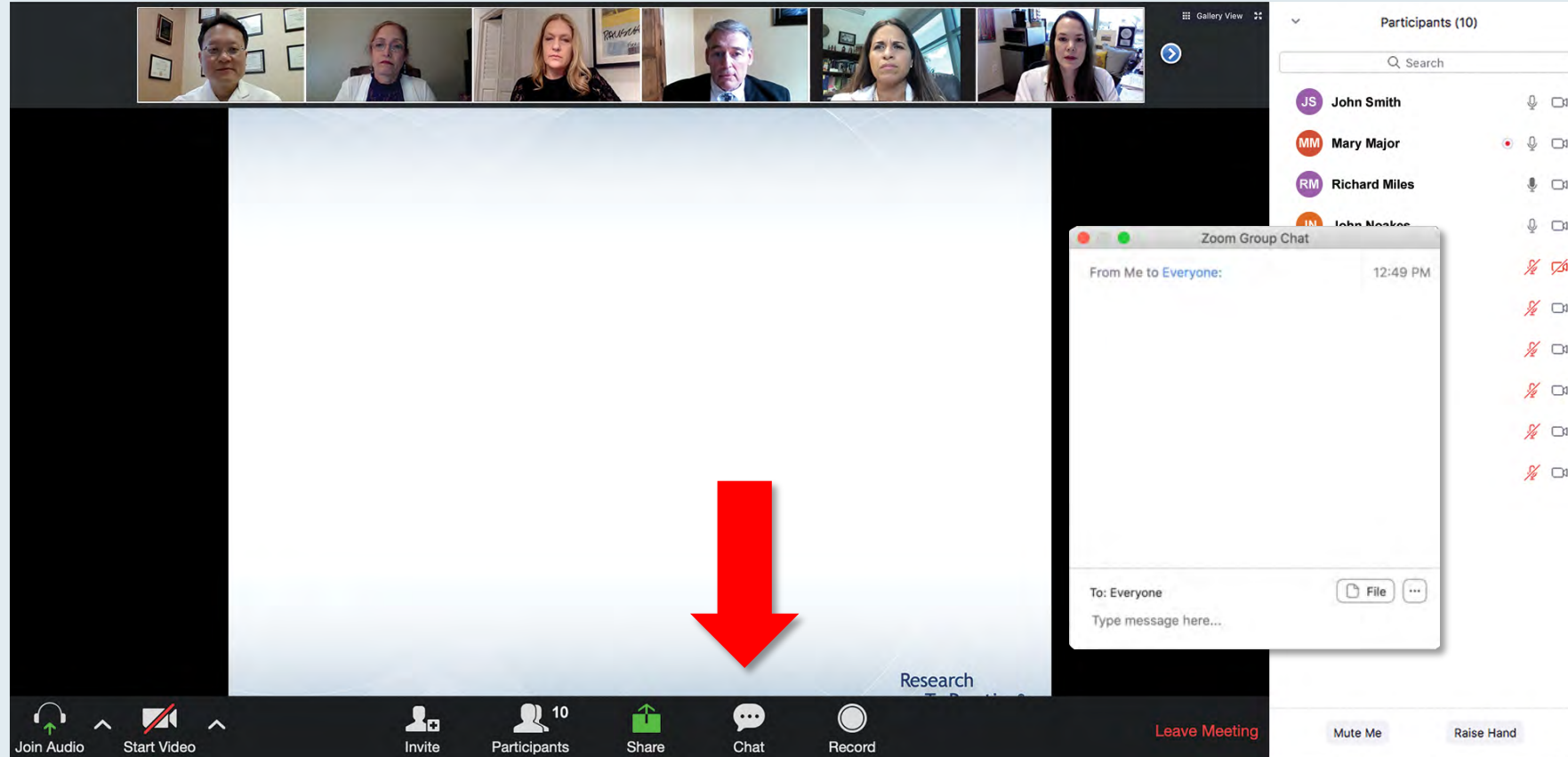
Dr Coleman — Disclosures

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 Penson — Disclosures

Advisory Committee	AbbVie Inc, AstraZeneca Pharmaceuticals LP, Care4ward (unpaid), Clovis Oncology, Curio Science, Eisai Inc, Genentech, a member of the Roche Group, Janssen Biotech Inc, Johnson & Johnson Pharmaceuticals, Merck, Mersana Therapeutics, NewLink Genetics, Nexus Group Global, Pieris Pharmaceuticals Inc, Roche Laboratories Inc, Sutro Biopharma, Syndax Pharmaceuticals Inc, Tesaro, A GSK Company, Vascular Biogenics
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Data and Safety Monitoring Board/Committee	AbbVie Inc, AstraZeneca Pharmaceuticals LP

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, with the first six being combinations of monoclonal antibodies, immunomodulators, and dexamethasone. A "Quick Poll" window is open, showing a list of these treatment options with radio buttons for selection. The bottom of the screen shows the Zoom toolbar with icons for Join Audio, Start Video, Invite, Participants (10), Share, Chat, Record, and Leave Meeting. On the right side, a "Participants (10)" list is visible, showing names and status icons.

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

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	Status
JS John Smith	Microphone Off
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
JF Juan Fernandez	Microphone Off
AK Ashok Kumar	Microphone Off
JS Jeremy Smith	Microphone Off

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

ONCOLOGY TODAY

WITH DR NEIL LOVE

THE ROLE OF PARP INHIBITION IN THE MANAGEMENT OF OVARIAN CANCER



DR URSULA MATULONIS
DANA-FARBER CANCER INSTITUTE



Year in Review — Clinical Investigators Provide Perspectives on the Most Relevant New Publications, Data Sets and Advances in Oncology: Lymphomas

**Thursday, January 14, 2021
5:00 PM – 6:00 PM ET**

Faculty

**Christopher R Flowers, MD, MS
Sonali M Smith, MD**

Moderator

Neil Love, MD

Year in Review — Clinical Investigators Provide Perspectives on the Most Relevant New Publications, Data Sets and Advances in Oncology: Nontargeted Therapy for Lung Cancer

**Tuesday, January 19, 2021
5:00 PM – 6:00 PM ET**

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**Matthew Gubens, MD, MS
Suresh S Ramalingam, MD**

Moderator

Neil Love, MD

**Recent Advances in Hematologic Oncology:
A 4-Part Live Webinar Series Reviewing Key Data and
Presentations from the 62nd ASH Annual Meeting**

Part 1 — Acute Myeloid Leukemia

Wednesday, January 20, 2021

5:00 PM – 6:00 PM ET

Faculty

Daniel A Pollyea, MD, MS

Eytan M Stein, MD

Andrew H Wei, MBBS, PhD

Moderator

Neil Love, MD

**Year in Review — Clinical Investigators Provide
Perspectives on the Most Relevant New
Publications, Data Sets and Advances in Oncology:
Chronic Lymphocytic Leukemia**

**Thursday, January 21, 2021
5:00 PM – 6:00 PM ET**

Faculty

**Matthew S Davids, MD, MMSc
Jennifer Woyach, MD**

Moderator

Neil Love, MD

Meet The Professor

Management of Ovarian Cancer

**Friday, January 22, 2021
1:15 PM – 2:15 PM ET**

Faculty

Professor Jonathan A Ledermann, MD

Moderator

Neil Love, MD

Thank you for joining us!

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

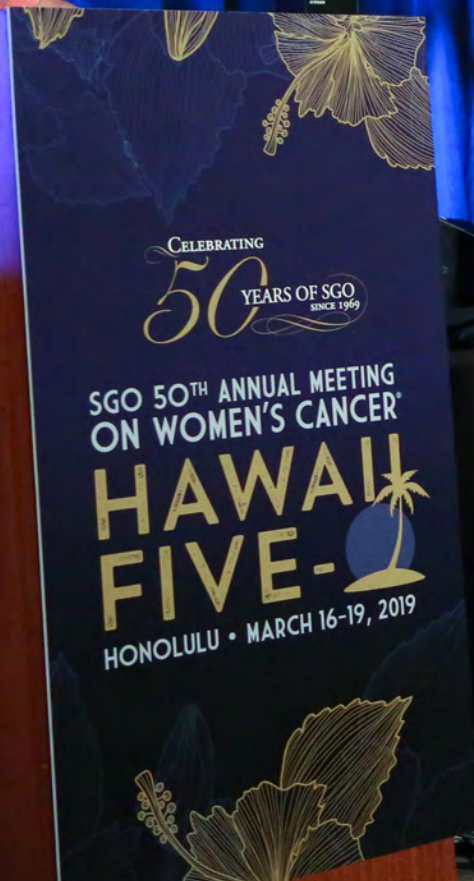
















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-  **Answer Survey Questions:** Complete the premeeting survey before the meeting. Survey results will be presented and discussed throughout the meeting.
-  **Ask a Question:** Tap Ask a Question to submit a challenging case or question for discussion. We will aim to address as many questions as possible during the program.
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YiR Gynecologic Cancers Faculty



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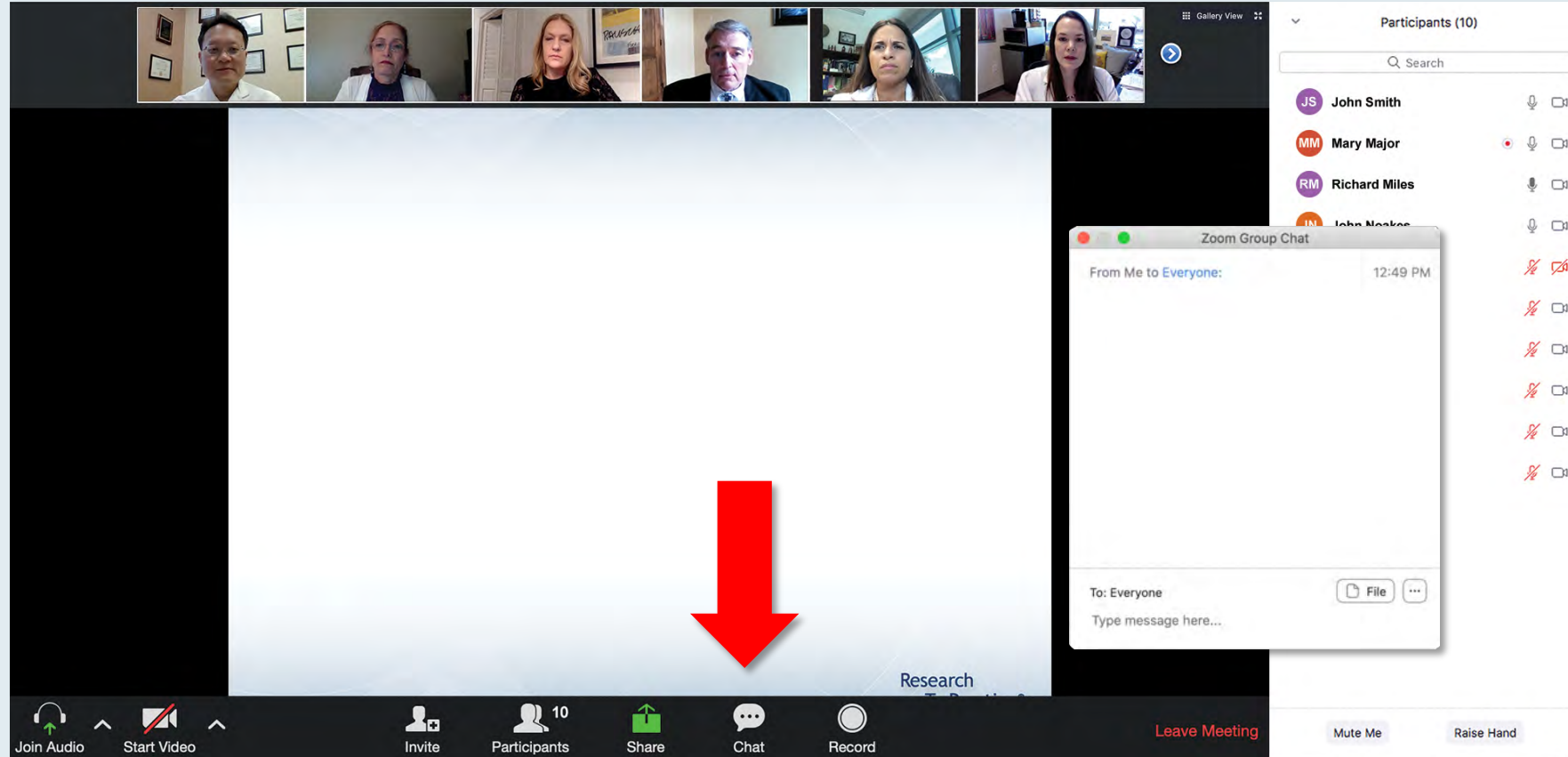
Chief Scientific Officer
US Oncology Research
Gynecologic Oncology
McKesson
The Woodlands, Texas



Richard T Penson, MD, MRCP

Associate Professor of Medicine
Harvard Medical School
Clinical Director, Medical Gynecologic Oncology
Massachusetts General Hospital
Boston, Massachusetts

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Agenda

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Module 1: PARP inhibitors — Maintenance therapy

Module 2: PARP inhibitors — Combination with anti-PD-1/PD-L1 antibodies

Module 3: Checkpoint inhibitors

Module 4: Mirvetuximab soravtansine

Treatment of Endometrial and Cervical Cancers

Module 5: Endometrial cancer — Immune checkpoint inhibitors +/- lenvatinib

Module 6: Cervical cancer — Antibody-drug conjugates, immune checkpoint inhibitors

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Module 6: Cervical cancer — Antibody-drug conjugates, immune checkpoint inhibitors

Module 1: PARP inhibitors – Maintenance therapy

- **Key Relevant Data Sets**

- SOLO-1: Five-year follow-up
- PRIMA: Niraparib – efficacy by BRCA and HR status
- OVARIO: Niraparib + bevacizumab

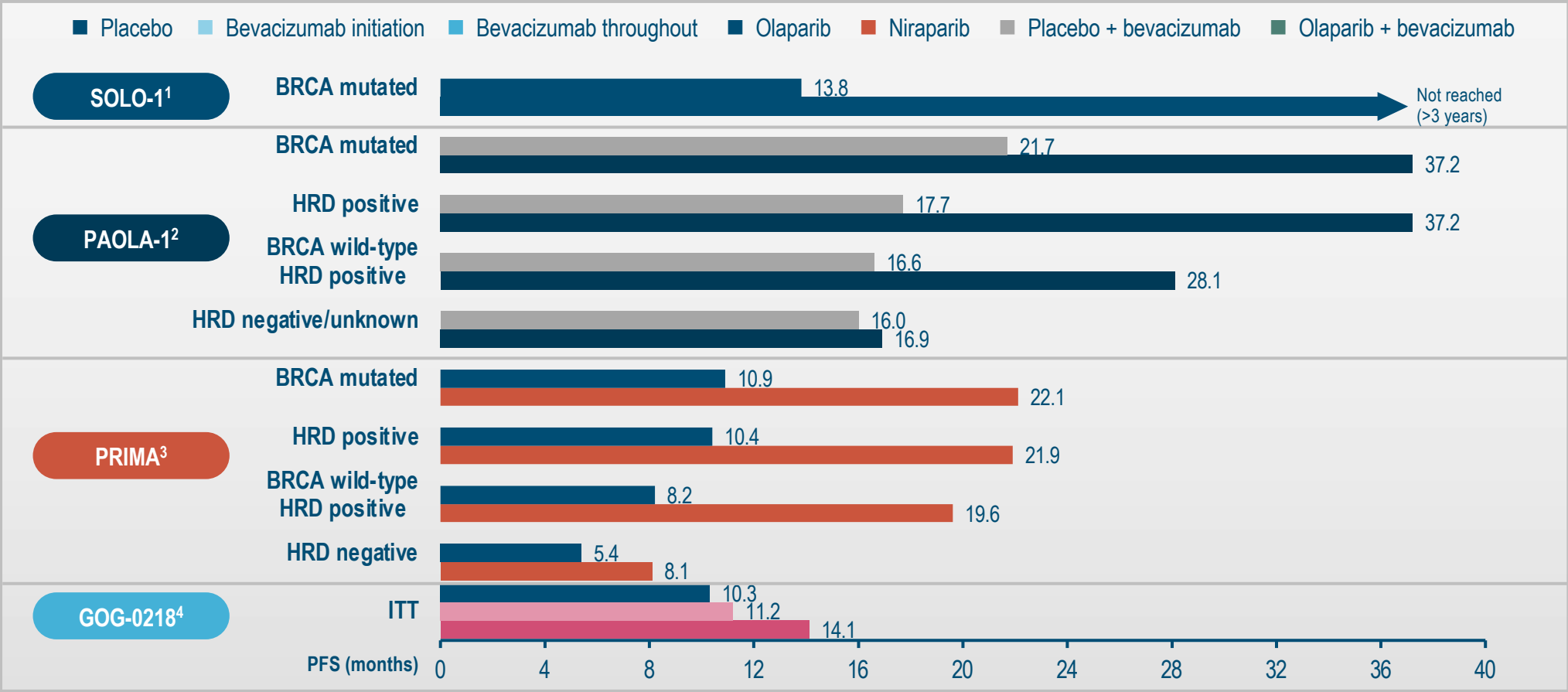
Phase III First-Line Maintenance Trials

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	BRCA mutation	All comers	All comers	All comers
Treatment Duration	24 months	15 months for Bev 24 months for Olaparib	36 months or until PD	24 months

Courtesy of Shannon N Westin, MD, MPH

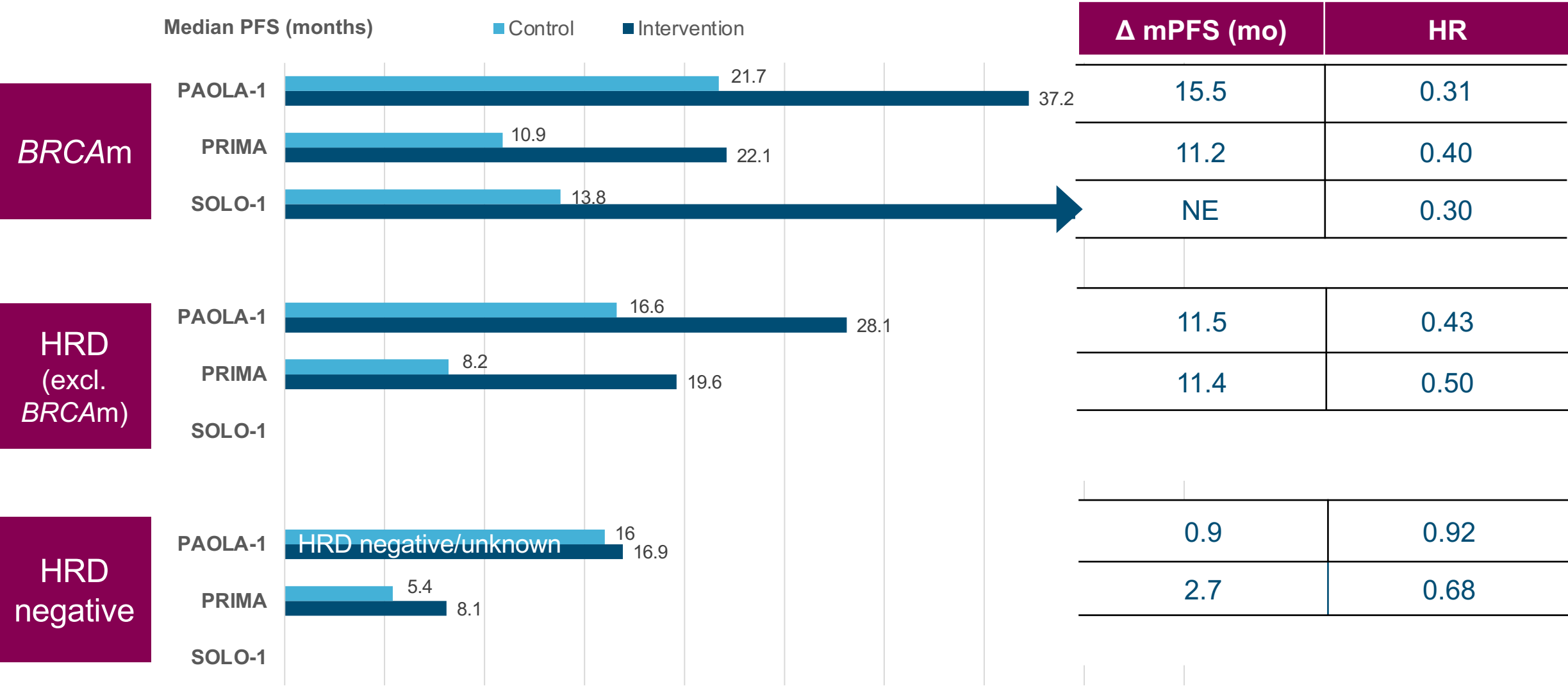
Burger RA, *N Engl J Med* 2011; Norquist B *Clin Cancer Res* 2018; *Bevacizumab* prescribing information; Moore K, *NEJM* 2018; Gonzalez-Martin *NEJM* 2019; Ray-Coquard *NEJM* 2019; Coleman *NEJM* 2019

SUMMARY OF APPROVED MAINTENANCE STUDIES IN THE FIRST-LINE



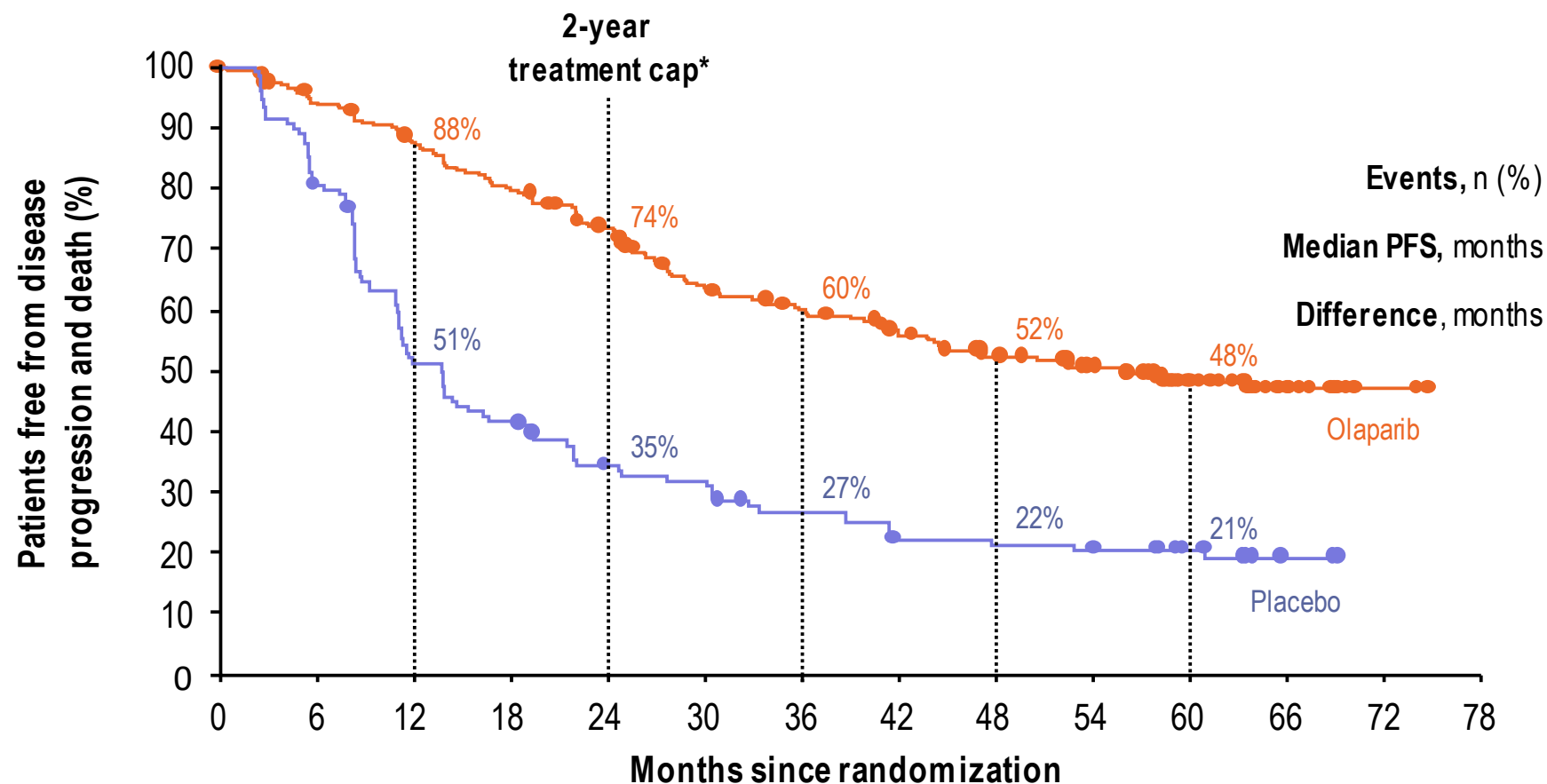
Comparisons across trials should not be made as trials were not head-to-head.
BRCA, breast cancer gene; HRD, homologous recombination deficiency; ITT, intent-to-treat; PFS, progression-free survival

PREDICTIVE BIOMARKER: BRCA-MUTATION



BRCA = breast cancer susceptibility gene; BRCAm = BRCA mutation; HRD = homologous recombination deficiency; mPFS = median progression-free survival; PARP = poly ADP-ribose polymerase.
1. Moore K et al. N. Engl. J. Med. 2018;379:2495-2505; 2. Gonzalez-Martin A, et al. N Engl J Med. 2019;381(25):2391-2402; 3. Gonzalez-Martin A, et al. Presented at: ESMO; 27 September–1 October 2019; Barcelona, Spain. Abstract LBA1;
4. Ray-Coquard I, et al. N Engl J Med. 2019;381:2416-28; 5. Ray-Coquard I, et al. Presented at: ESMO; 27 September–1 October 2019; Barcelona, Spain. Abstract LBA2

SOLO-1: PFS benefit of maintenance Olaparib was sustained beyond the end of treatment



Olaparib (N=260)	Placebo (N=131)
118 (45)	100 (76)
56.0	13.8
42.2	
HR 0.33 (95% CI 0.25–0.43)	

Median treatment duration:
Olaparib, 24.6 months
Placebo[†], 13.9 months

No. at risk

Olaparib	260	229	212	194	173	140	129	115	101	91	58	30	2	0
Placebo	131	103	65	53	41	38	30	24	23	22	16	3	0	0

*13 patients, all in the olaparib arm, continued study treatment past 2 years; [†]n=130 (safety analysis set)
Investigator-assessed by modified RECIST v1.1. DCO: 5 March 2020

SOLO-1

Secondary efficacy outcomes*
support the observed PFS benefit

	Overall		Patients in CR at baseline	
	Olaparib (n=260)	Placebo (n=131)	Olaparib (n=189)	Placebo (n=101)
<u>PFS2</u>				
Events, n (%)	80 (31)	61 (47)	49 (26)	45 (45)
Event free at 5 years, %	64	41	68	44
Median, months	NR	42.1	NR	52.9
	HR 0.46 (95% CI 0.33–0.65)		HR 0.48 (95% CI 0.32–0.71)	
<u>TSST</u>				
Events, n (%)	95 (37)	77 (59)	64 (34)	56 (55)
Event free at 5 years, %	62	36	65	39
Median, months	NR	40.7	NR	47.7
	HR 0.46 (95% CI 0.34–0.63)		HR 0.50 (95% CI 0.35–0.72)	

Safety profile remained
consistent with the primary DCO

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

*Measured from randomization. AE, adverse event; AML, acute myeloid leukaemia; CR, complete response; MDS, myelodysplastic syndrome. DCO: 5 March 2020

Myelodysplastic syndrome and acute myeloid leukaemia in patients treated with PARP inhibitors: a safety meta-analysis of randomised controlled trials and a retrospective study of the WHO pharmacovigilance database

Pierre-Marie Morice, Alexandra Leary, Charles Dolladille, Basile Chrétien, Laurent Poulain, Antonio González-Martín, Kathleen Moore, Eileen Mary O'Reilly, Isabelle Ray-Coquard, Joachim Alexandre

PARP inhibitors—understanding the risk of myelodysplastic syndrome and acute myeloid leukaemia

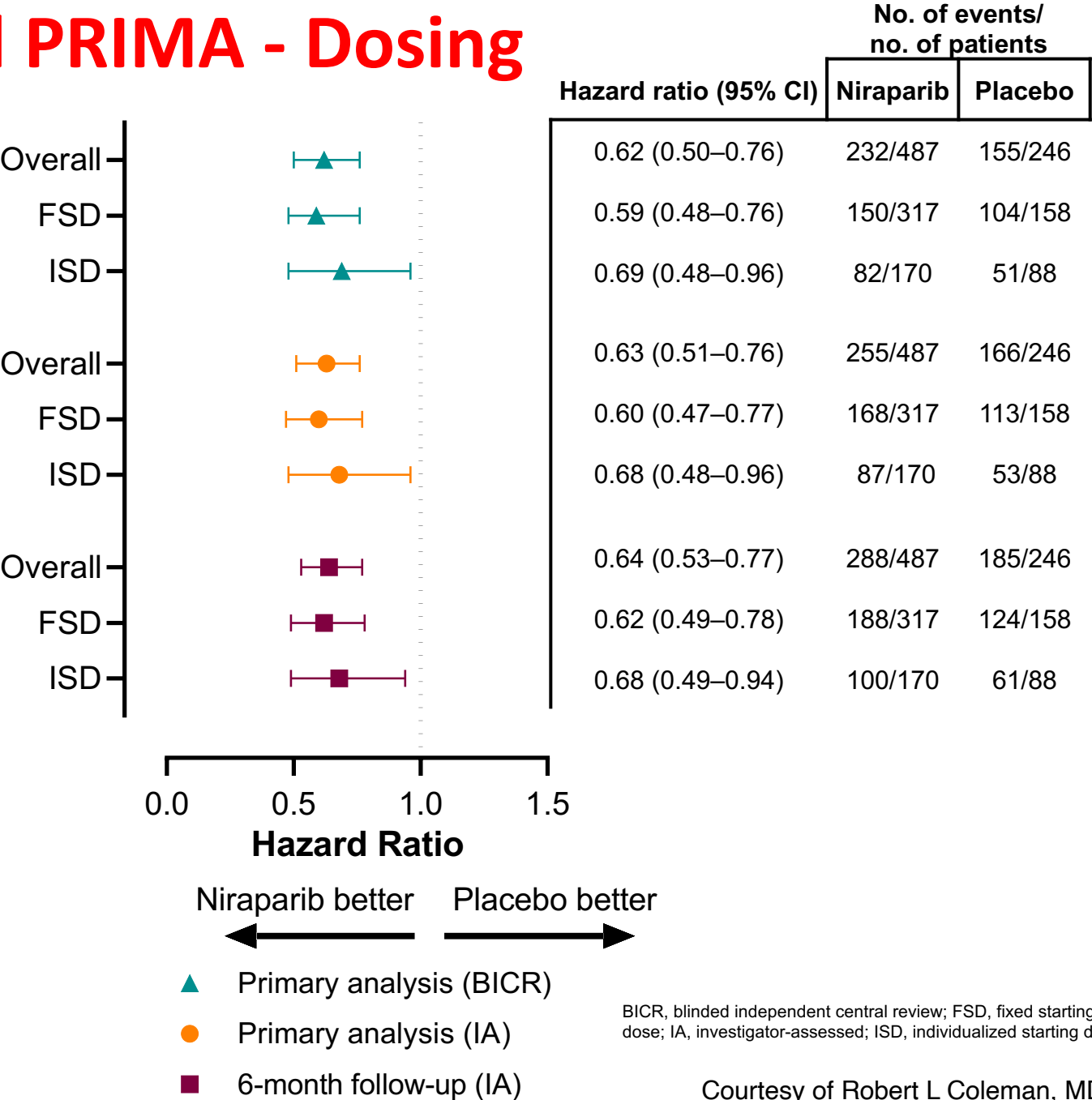
Lancet Haematol 2020;[Epub ahead of print].

Incidence of MDS and AML Across PARP Inhibitor Groups

- PARP inhibitor groups: 0.73% (95% CI 0.50-1.07; $I^2 = 0\%$, $\chi^2 p = 0.87$; 21 events out of 4,533 patients)
- Placebo groups: 0.47% (0.26-0.85; $I^2 = 0\%$, $\chi^2 p = 1.00$; 3 events out of 2,774 patients)

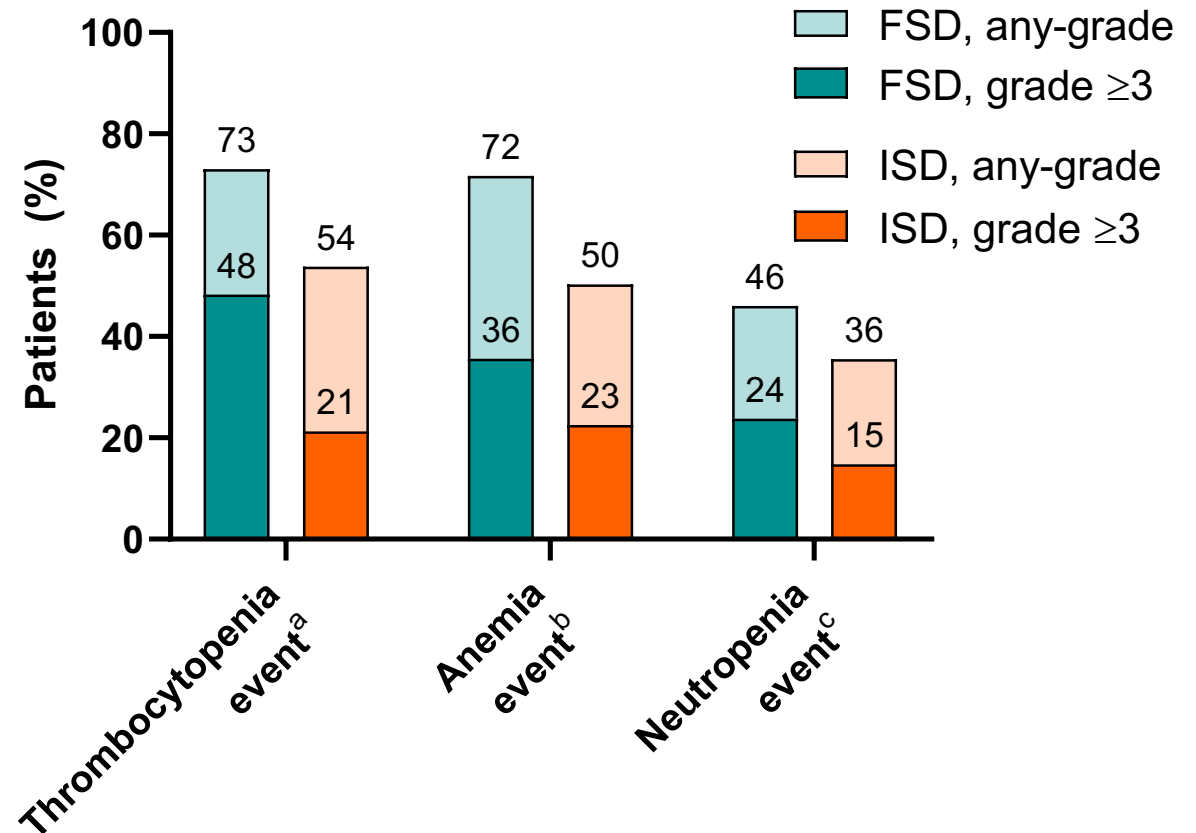
Progression-Free Survival PRIMA - Dosing

- No evidence of treatment difference was seen between starting dose regimens
 - A test of treatment interactions between FSD and ISD subgroups did not demonstrate statistical significance at the pre-specified 0.10 level ($P=0.30$)
- BICR and IA PFS were highly concordant
- Primary and updated IA PFS demonstrated sustained efficacy of ISD

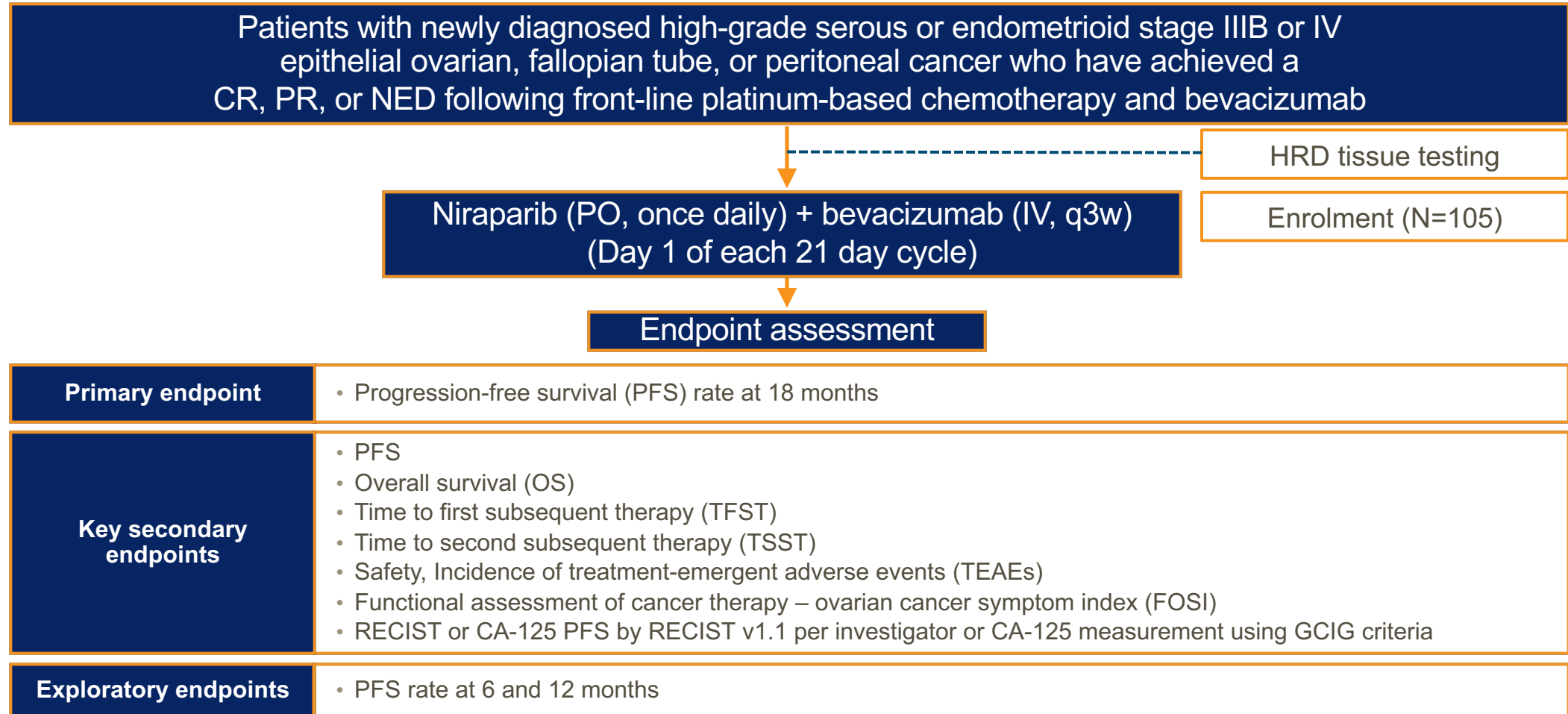


PRIMA: Safety

- Incidence of any-grade and grade ≥ 3 hematological TEAEs were reduced with ISD
 - Grade ≥ 3 thrombocytopenia events reduced from 48.3% to 21.3%
 - Grade ≥ 3 anemia events-reduced from 35.6% to 22.5%
 - Grade ≥ 3 neutropenia events-reduced from 23.8 to 14.8%



OVARIO – Trial design and endpoints



A 60-year-old woman with Stage IIIC ovarian cancer and a germline BRCA mutation is s/p optimal debulking surgery with a normal CA-125 level. Regulatory and reimbursement issues aside, what would you recommend as postoperative systemic therapy?

1. Carboplatin/paclitaxel
2. Carboplatin/paclitaxel → olaparib
3. Carboplatin/paclitaxel → niraparib
4. Carboplatin/paclitaxel + bevacizumab → olaparib
5. Carboplatin/paclitaxel + bevacizumab → niraparib
6. Carboplatin/paclitaxel + bevacizumab → bevacizumab/olaparib
7. Carboplatin/paclitaxel + bevacizumab → bevacizumab/niraparib
8. Other

A 60-year-old woman with Stage IIIC ovarian cancer (BRCA wild type, HRD-negative) is s/p optimal debulking surgery with a normal CA-125 level. Regulatory and reimbursement issues aside, what would you recommend as postoperative systemic therapy?

1. Carboplatin/paclitaxel
2. Carboplatin/paclitaxel → olaparib
3. Carboplatin/paclitaxel → niraparib
4. Carboplatin/paclitaxel + bevacizumab → olaparib
5. Carboplatin/paclitaxel + bevacizumab → niraparib
6. Carboplatin/paclitaxel + bevacizumab → bevacizumab/olaparib
7. Carboplatin/paclitaxel + bevacizumab → bevacizumab/niraparib
8. Other

A 60-year-old woman with Stage IIIC ovarian cancer and a somatic BRCA mutation is s/p suboptimal debulking surgery with an elevated CA-125 level. Regulatory and reimbursement issues aside, what would you recommend as postoperative systemic therapy?

1. Carboplatin/paclitaxel
2. Carboplatin/paclitaxel → olaparib
3. Carboplatin/paclitaxel → niraparib
4. Carboplatin/paclitaxel + bevacizumab → olaparib
5. Carboplatin/paclitaxel + bevacizumab → niraparib
6. Carboplatin/paclitaxel + bevacizumab → bevacizumab /olaparib
7. Carboplatin/paclitaxel + bevacizumab → bevacizumab /niraparib
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Agenda

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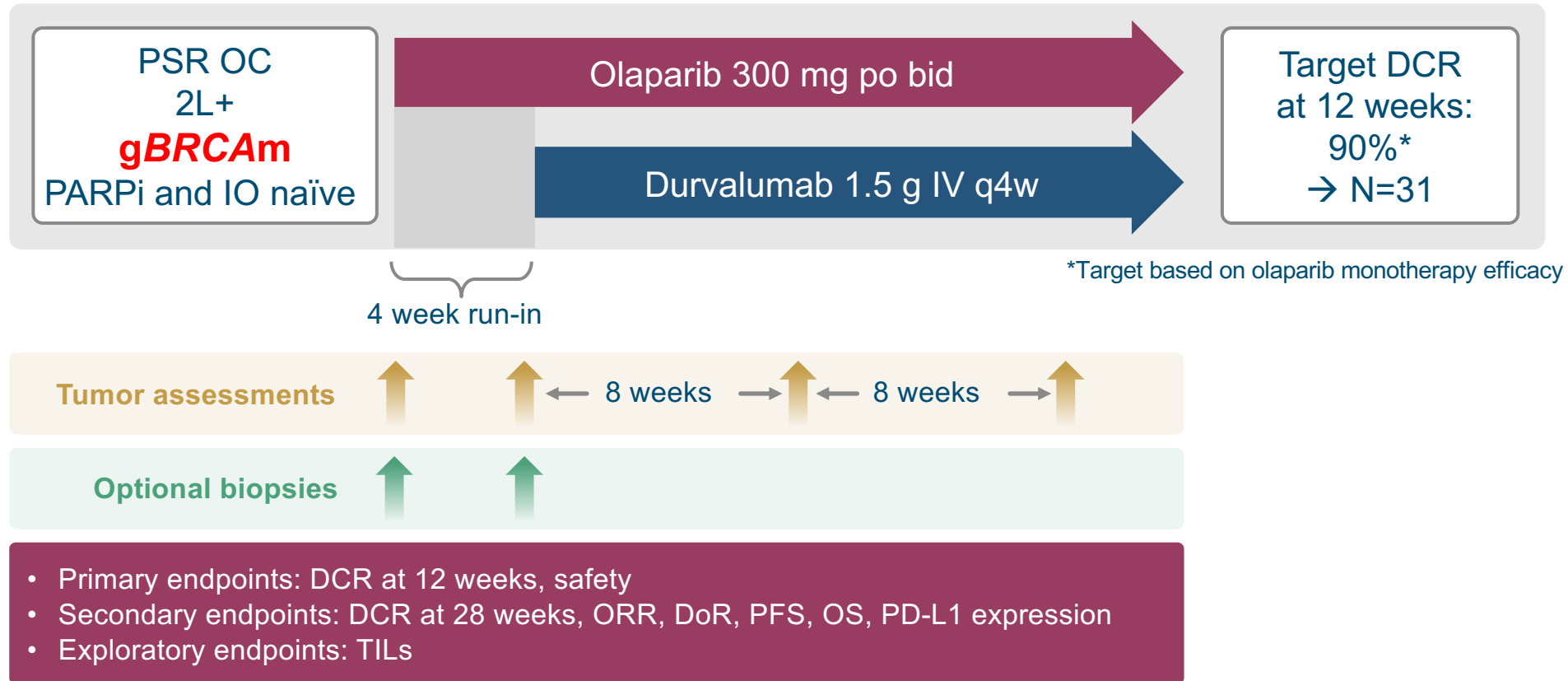
Module 2: PARP inhibitors – Combination with anti-PD-1/PD-L1 antibodies

- **Key Relevant Data Set**

- MEDIOLA: Olaparib + durvalumab +/- bevacizumab for relapsed ovarian cancer
- TOPACIO: Niraparib + pembrolizumab for platinum-resistant ovarian cancer

MEDIOLA

Initiation of therapy at the time of relapse



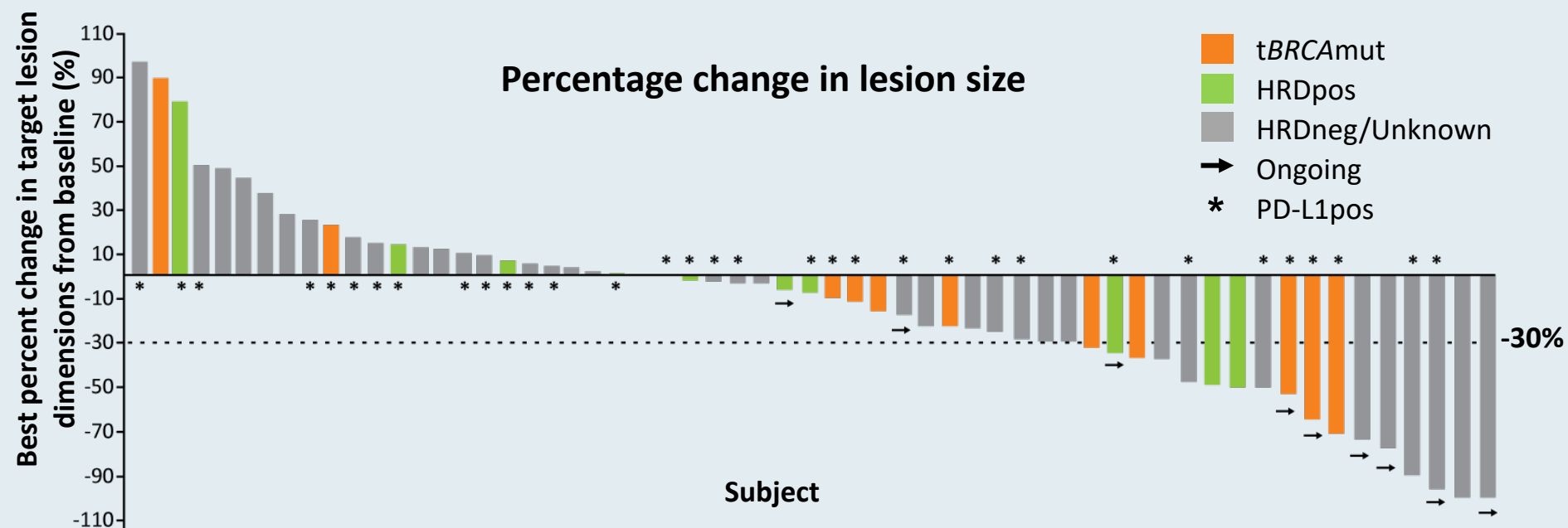
DCR, disease control rate; DoR, duration of response; IV, intravenous; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; po, oral; TILs, tumor-infiltrating lymphocytes

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

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

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

TOPACIO (KEYNOTE-162): A Phase I/II Study of Niraparib with Pembrolizumab for Recurrent, Platinum-Resistant OC



Response	All patients	tBRCAmut	HRD-pos	tBRCAwt	HRD-neg
ORR	18%	18%	14%	19%	19%

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Module 3: Checkpoint inhibitors

- **Key Relevant Data Sets**

- KEYNOTE-100: Pembrolizumab for advanced recurrent ovarian cancer
- NRG Oncology study: Nivolumab +/- ipilimumab for recurrent ovarian cancer

KEYNOTE-100 (NCT02674061): Phase 2, Two-Cohort Study of Pembrolizumab for Recurrent Advanced Ovarian Cancer

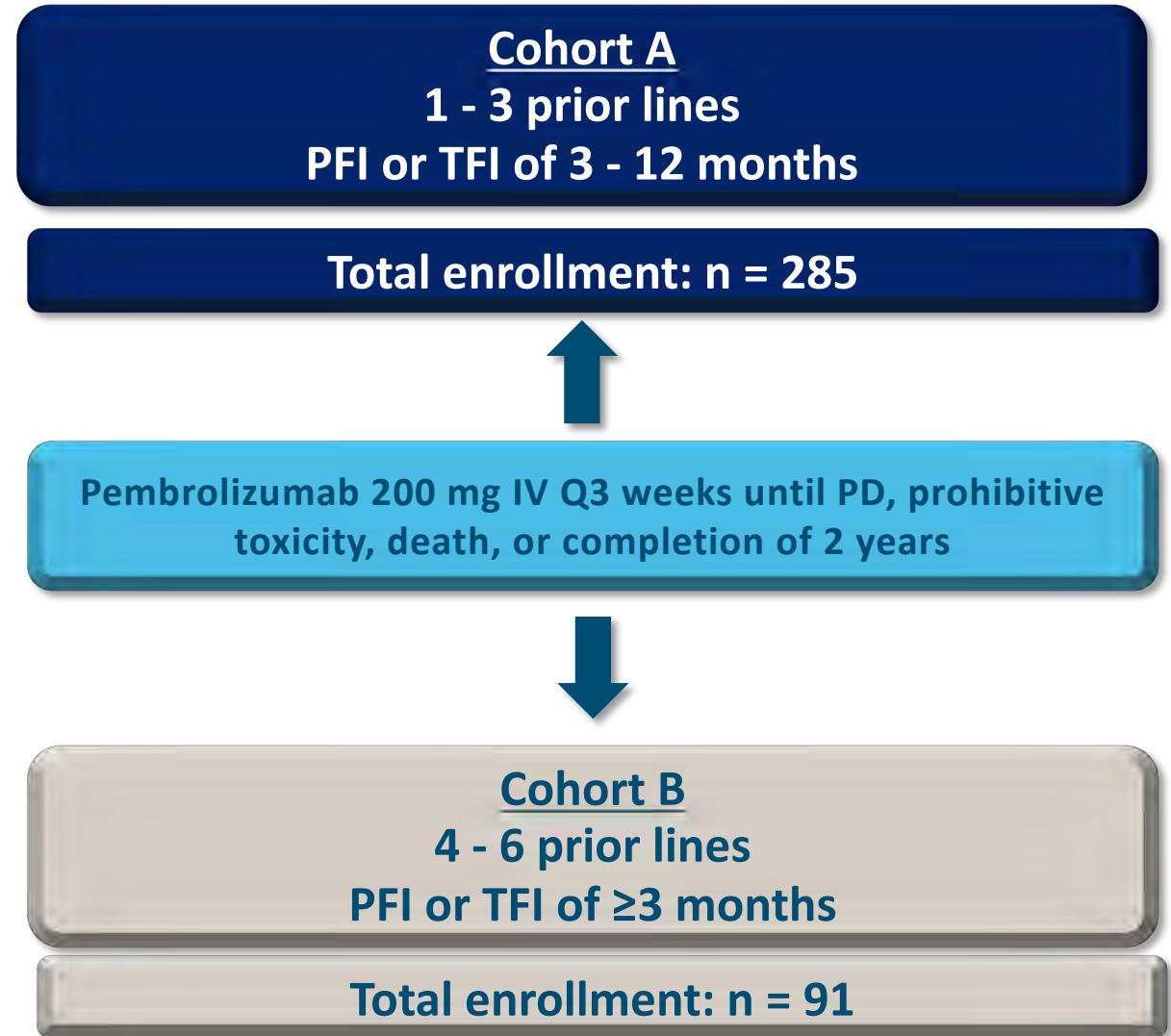
Patients (N = 376)

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

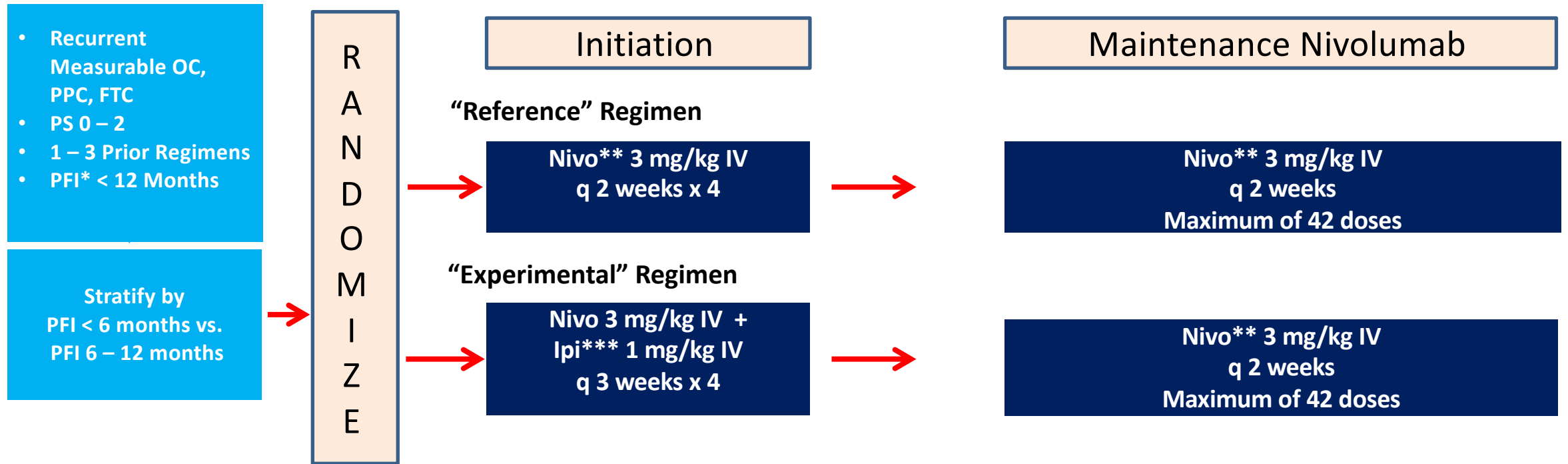
Key exclusion criteria:

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

Courtesy of Robert L Coleman, MD



Final Preview of NRG GY003: Phase II Randomized Trial of Nivolumab with or without Ipilimumab in Patients with Persistent or Recurrent Epithelial Ovarian, Primary Peritoneal or Fallopian Tube Cancer



GY003: Phase II (Ipi/nivo vs nivo)

- N = 100 patients
 - 49 pts Nivo “control”
 - 51 pts Ipi/Nivo
- Demographics
 - Median age: 62
 - HGSOC: 82%
- Response window 6 months
- Gr 3+ toxicity
 - 27 (55%) Nivolumab
 - 34 (67%) in combination
 - No Grade 5 events

Outcome	Nivo	Ipi + Nivo
Response	6/49 (12%)	16/51 (31%)
HR _{PFS}	0.53 (0.34-0.82)	
HR _{Death}	0.79 (0.44-1.42)	

Agenda

Management of Ovarian Cancer

Module 1: PARP inhibitors — Maintenance therapy

Module 2: PARP inhibitors — Combination with anti-PD-1/PD-L1 antibodies

Module 3: Checkpoint inhibitors

Module 4: Mirvetuximab soravtansine

Treatment of Endometrial and Cervical Cancers

Module 5: Endometrial cancer — Immune checkpoint inhibitors +/- lenvatinib

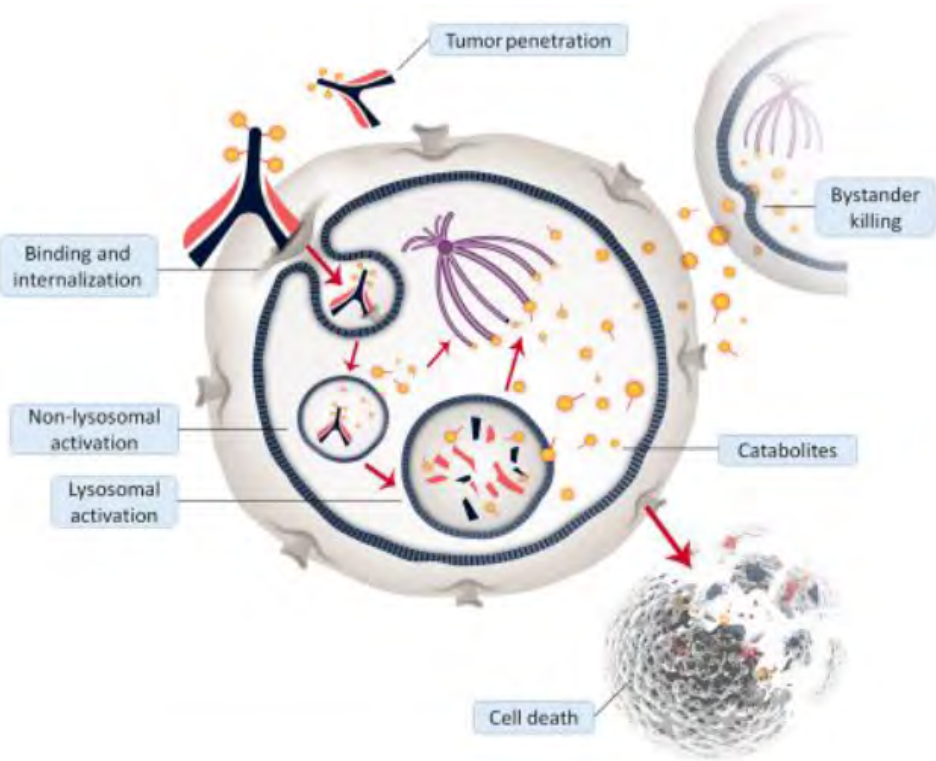
Module 6: Cervical cancer — Antibody-drug conjugates, immune checkpoint inhibitors

Module 4: Mirvetuximab soravtansine

- **Key Relevant Data Set**

- Mirvetuximab soravtansine + bevacizumab for platinum-resistant ovarian cancer

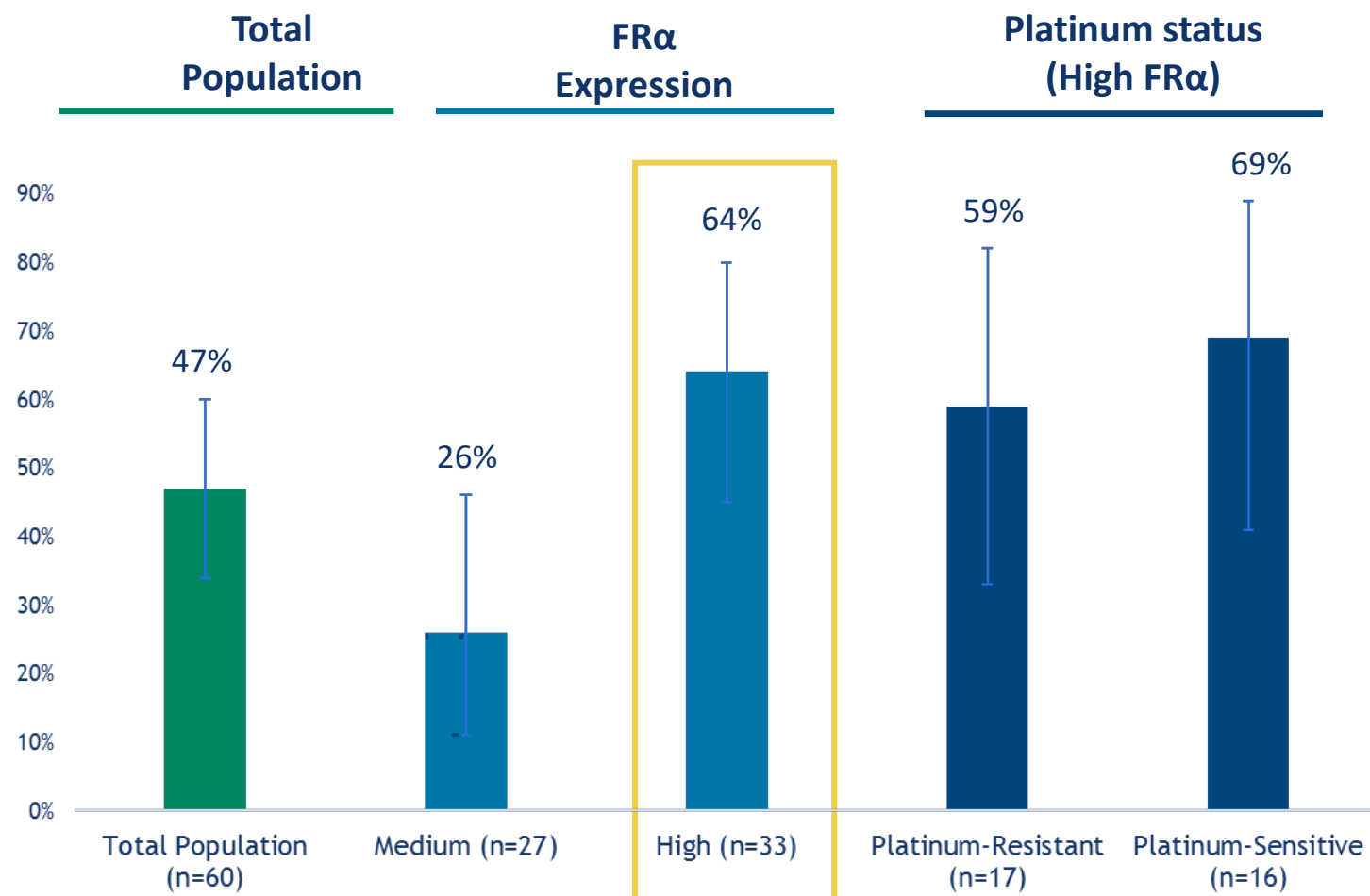
Mirvetuximab Soravtansine (MIRV) In Combination With Bevacizumab In Patients With Platinum Agnostic Ovarian Cancer



Enrolled patients with folate receptor medium to high expressing tumors
 Allowed both plat sens and plat resistant tumors

Characteristic	N=60
Age (median)	60 (44-83)
ECOG PS	
0	75%
1	25%
# prior therapies	
1	33%
2	37%
≥3	30%
FR alpha	
med	45%
high	55%
Prior regimens	
Platinums	100%
Taxanes	98%
Bevacizumab	40%
PARPi	32%
Platinum Free Interval	
< 6 months	53%
6-12 months	33%
> 12 months	13%

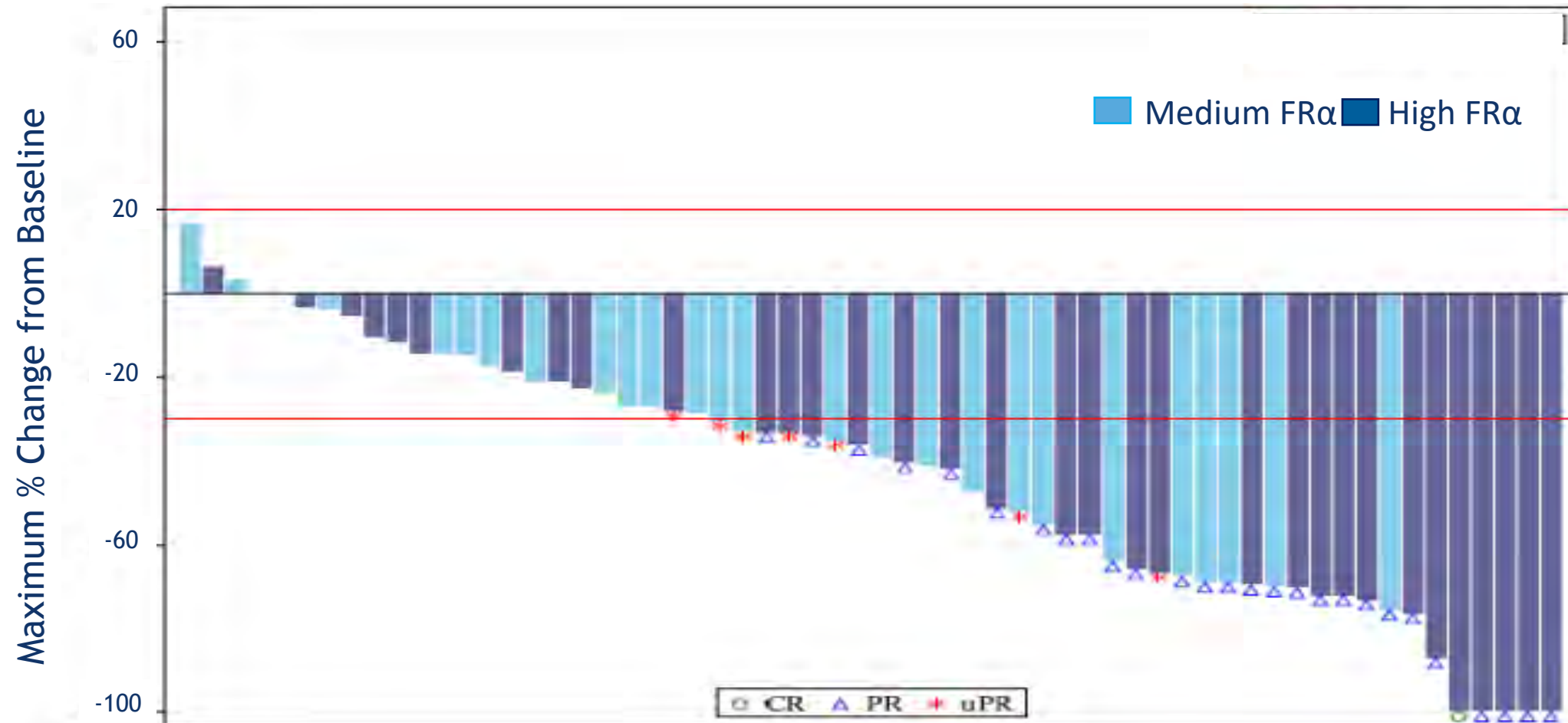
ORR by FR α Expression and Platinum Status with MIRV/Bev



- 47% ORR (28/60) for overall cohort
- 64% ORR (21/33) in high FR α pts
 - 59% ORR (10/17) in-platinum-resistant subset
 - 69% ORR (11/16) in platinum-sensitive subset
- With a median follow-up of 8.5 months, the duration of response and progression free survival data are immature

Courtesy of Robert L Coleman, MD

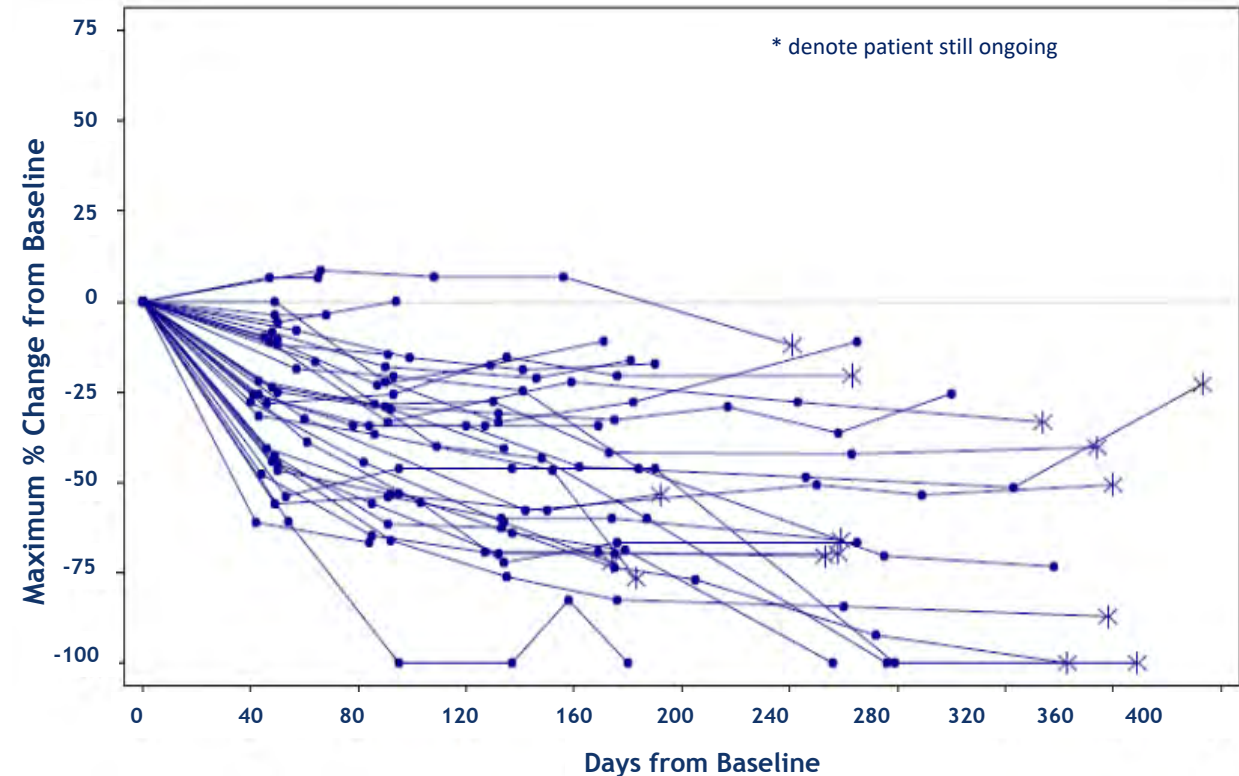
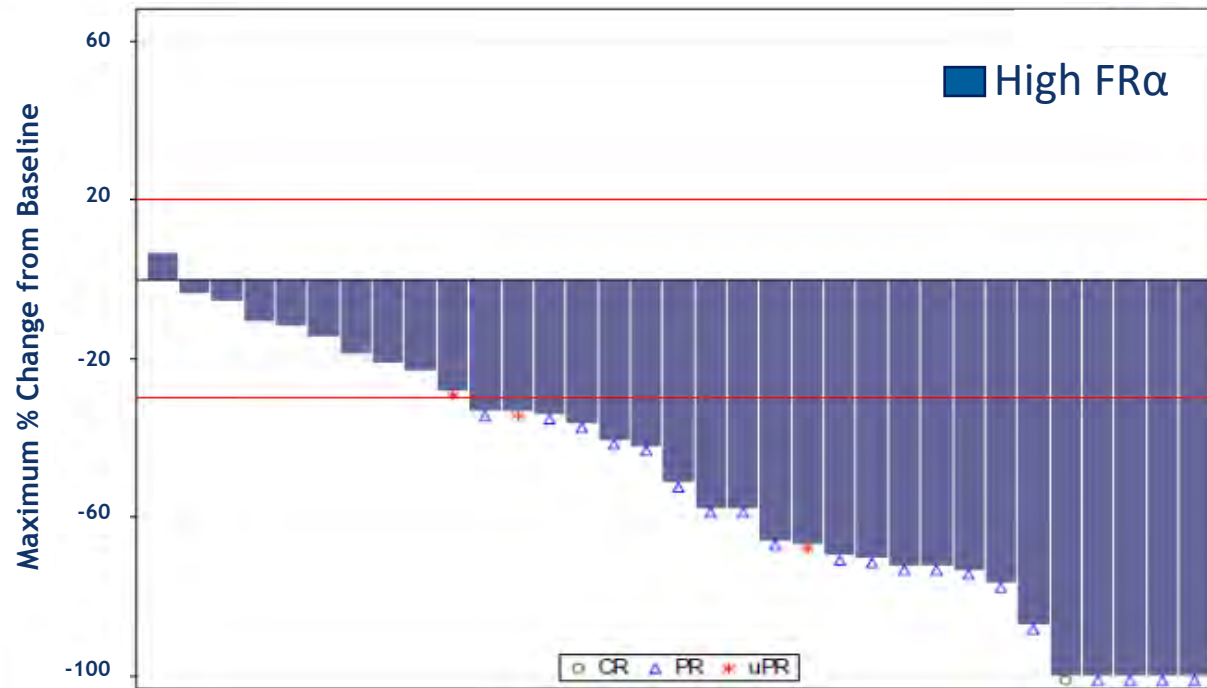
Maximum Tumor Change (%) in Target Lesions from Baseline with MIRV/Bev



- 92% (55/60) of patients demonstrated tumor reduction
- Deeper tumor responses in high FRα pts

Courtesy of Robert L Coleman, MD

Depth and Duration of Tumor Reduction with MIRV/Bev in High FR α Patients



- More durable tumor reductions in high FR α , with 46% of high FR α (vs 26% of medium FR α) remaining on treatment
- With a median duration of follow-up of 8.5 months, duration of response (DOR) and progression free survival (PFS) are immature

Courtesy of Robert L Coleman, MD

MIRV/Bev: Treatment-Related Emergent Adverse Events

Adverse Event	All Grades		Grade 3/4	
	N	%	No.	%
Diarrhea	41	68	1	2
Blurred vision	38	63	1	2
Fatigue	35	58	3	5
Nausea	33	55	0	0
Peripheral neuropathy*	26	43	1	2
Keratopathy [†]	26	43	0	0
Dry eye	21	35	3	5
Headache	21	35	0	0
Decreased appetite	19	32	0	0
Hypertension	17	28	7	12
AST increased	17	28	2	3
Vomiting	16	27	0	0
Abdominal pain	16	27	0	0
Neutropenia	14	23	6	10
ALT increased	13	22	3	5
Dysphonia	13	22	0	0
Visual acuity reduced	13	22	0	0
Thrombocytopenia	13	22	2	3

AST, aspartate aminotransferase; ALT, alanine aminotransferase;

*Includes neuropathy peripheral, peripheral sensory neuropathy, paresthesia, and hypoesthesia

- Most AEs were low grade
 - GI and Ocular
 - Ocular AE class effect of ADC but manageable with local drops
- Grade 3+ events were infrequent
 - 12% hypertension
 - 10% myelosuppression
 - Pneumonitis
 - Grade 3: None
 - Grade 1: 3pts
 - Grade 2: 1pt
- Thirteen patients (22%) discontinued bevacizumab and/or MIRV due to treatment-related AEs

MIRV/Bev: Treatment-Related Emergent Adverse Events

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 - Ocular AE class effect of ADC but manageable with local drops
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Module 3: Checkpoint inhibitors

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Treatment of Endometrial and Cervical Cancers

Module 5: Endometrial cancer — Immune checkpoint inhibitors +/- lenvatinib

Module 6: Cervical cancer — Antibody-drug conjugates, immune checkpoint inhibitors

Module 5: Endometrial cancer — Immune checkpoint inhibitors with and without lenvatinib

• Key Relevant Data Sets

- KEYNOTE-158: Pembrolizumab for non-CRC MSI-high/dMMR cancers
- KEYNOTE-146: Lenvatinib + pembrolizumab for advanced endometrial cancer (EC)
- LEAP-005: Lenvatinib + pembrolizumab for previously treated advanced solid tumors
- Avelumab for recurrent EC
- Dostarlimab for dMMR recurrent EC
- ENGOT-EN6: Dostarlimab + chemotherapy for recurrent or primary advanced EC

Efficacy of Pembrolizumab in Patients With Noncolorectal High Microsatellite Instability/Mismatch Repair–Deficient Cancer: Results From the Phase II KEYNOTE-158 Study

Aurelien Marabelle, MD, PhD¹; Dung T. Le, MD²; Paolo A. Ascierto, MD³; Anna Maria Di Giacomo, MD⁴; Ana De Jesus-Acosta, MD²; Jean-Pierre Delord, MD, PhD⁵; Ravit Geva, MD, MSc⁶; Maya Gottfried, MD⁷; Nicolas Penel, MD, PhD⁸; Aaron R. Hansen, MBBS⁹; Sarina A. Piha-Paul, MD¹⁰; Toshihiko Doi, MD, PhD¹¹; Bo Gao, MBBS, PhD¹²; Hyun Cheol Chung, MD, PhD¹³; Jose Lopez-Martin, MD, PhD¹⁴; Yung-Jue Bang, MD, PhD¹⁵; Ronnie Shapira Frommer, MD¹⁶; Manisha Shah, MD¹⁷; Razi Ghorri, PhD¹⁸; Andrew K. Joe, MD¹⁸; Scott K. Pruitt, MD, PhD¹⁸; and Luis A. Diaz Jr, MD¹⁹

J Clin Oncol 2020;38(1):1-10

KEYNOTE-158: Tumor Type Specific Antitumor Activity

TABLE 3. Antitumor Activity for Tumor Types With Greatest Enrollment

Tumor Type	No.	CR, No.	PR, No.	ORR, % (95% CI)	Median PFS, Months (95% CI)	Median OS, Months (95% CI)	Median DOR, Months (range)
Endometrial	49	8	20	57.1 (42.2 to 71.2)	25.7 (4.9 to NR)	NR (27.2 to NR)	NR (2.9 to 27.0+)
Gastric	24	4	7	45.8 (25.6 to 67.2)	11.0 (2.1 to NR)	NR (7.2 to NR)	NR (6.3 to 28.4+)
Cholangiocarcinoma	22	2	7	40.9 (20.7 to 63.6)	4.2 (2.1 to NR)	24.3 (6.5 to NR)	NR (4.1+ to 24.9+)
Pancreatic	22	1	3	18.2 (5.2 to 40.3)	2.1 (1.9 to 3.4)	4.0 (2.1 to 9.8)	13.4 (8.1 to 16.0+)
Small intestine	19	3	5	42.1 (20.3 to 66.5)	9.2 (2.3 to NR)	NR (10.6 to NR)	NR (4.3+ to 31.3+)
Ovarian	15	3	2	33.3 (11.8 to 61.6)	2.3 (1.9 to 6.2)	NR (3.8 to NR)	NR (4.2 to 20.7+)
Brain	13	0	0	0.0 (0.0 to 24.7)	1.1 (0.7 to 2.1)	5.6 (1.5 to 16.2)	—

KEYNOTE-100
Matulonis UA, et al. Ann Oncol. 2019;30(7):1080-1087

Marabelle A, et al. J Clin Oncol 2020;38(1):1-10

KEYNOTE-158: Toxicities

TABLE 4. Incidence of Adverse Events

Adverse Event	Patients (N = 233)	
	Any Grade, No. (%)	Grade 3-4*, No. (%)
Treatment-related adverse events		
Any	151 (64.8)	34 (14.6)
Occurring in $\geq 5\%$ of patients		
Fatigue	34 (14.6)	2 (0.9)
Pruritus	30 (12.9)	0
Diarrhea	28 (12.0)	0
Asthenia	25 (10.7)	1 (0.4)
Hypothyroidism	19 (8.2)	0
Arthralgia	18 (7.7)	0
Nausea	15 (6.4)	0
Rash	12 (5.2)	0

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

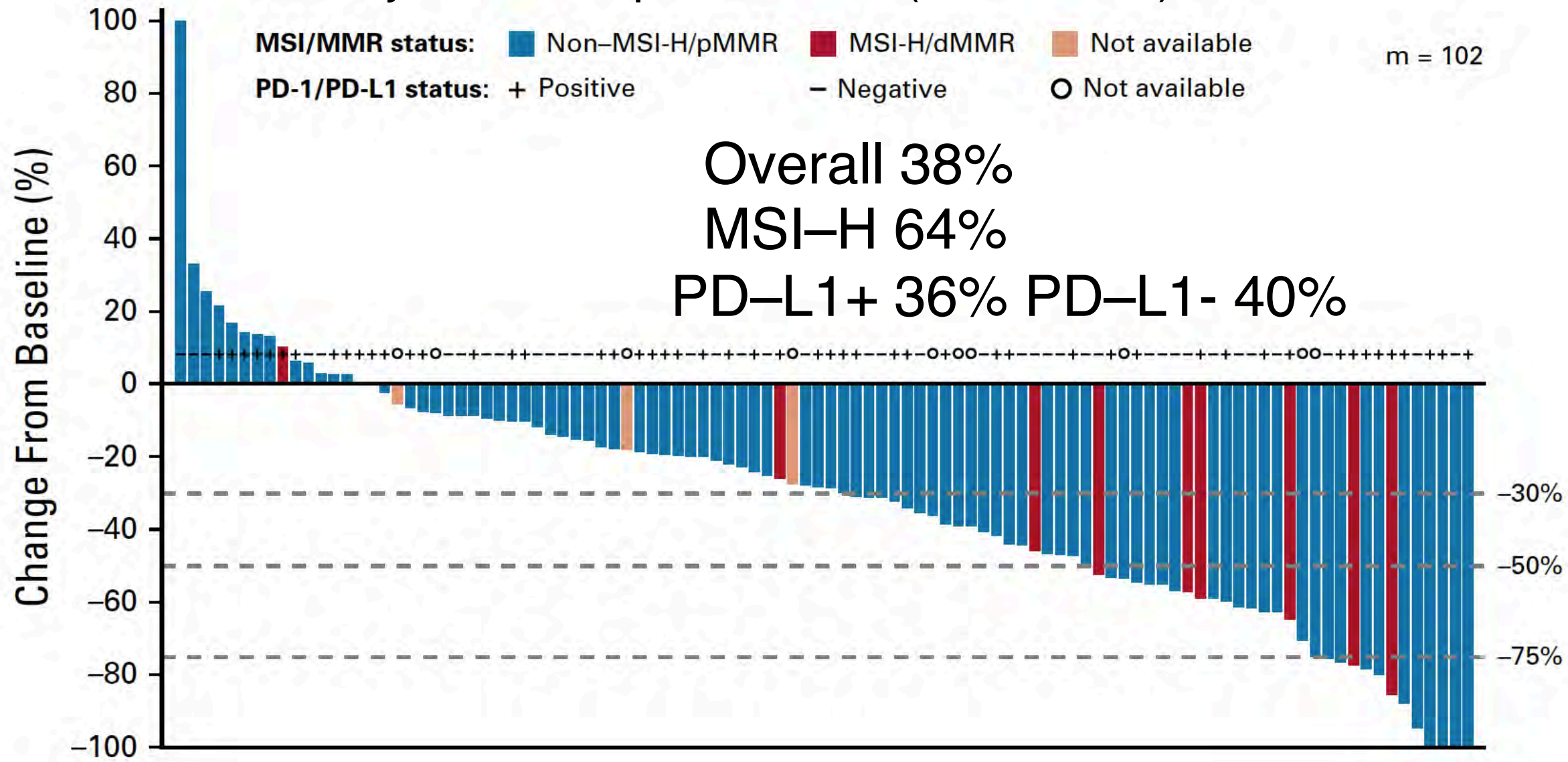
J Clin Oncol 2020;38(26):2981-2992

Lenvatinib 20 mg PO QD pembrolizumab 200 mg IV Q21

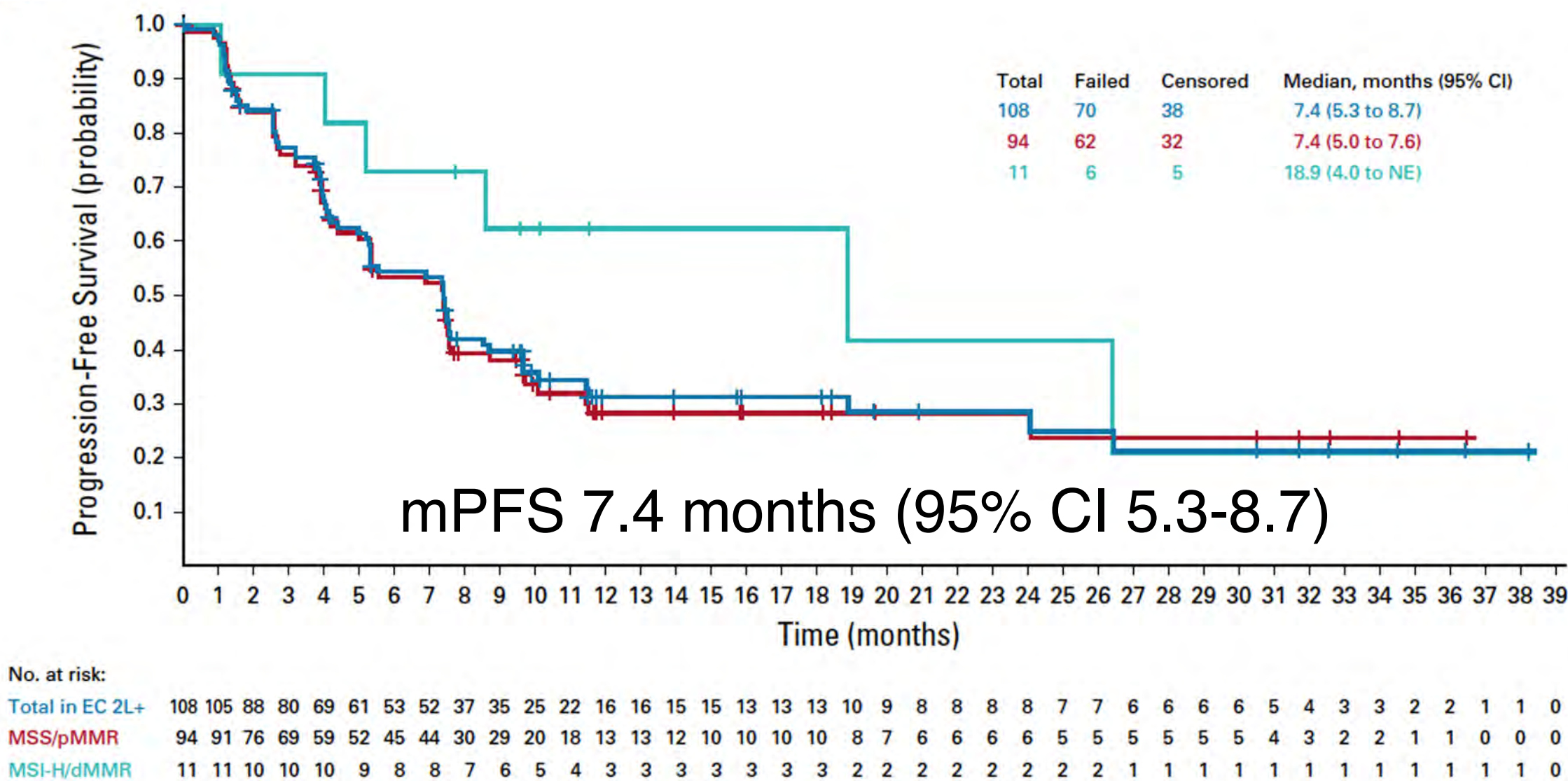
Primary end point: ORRWk24

n=108

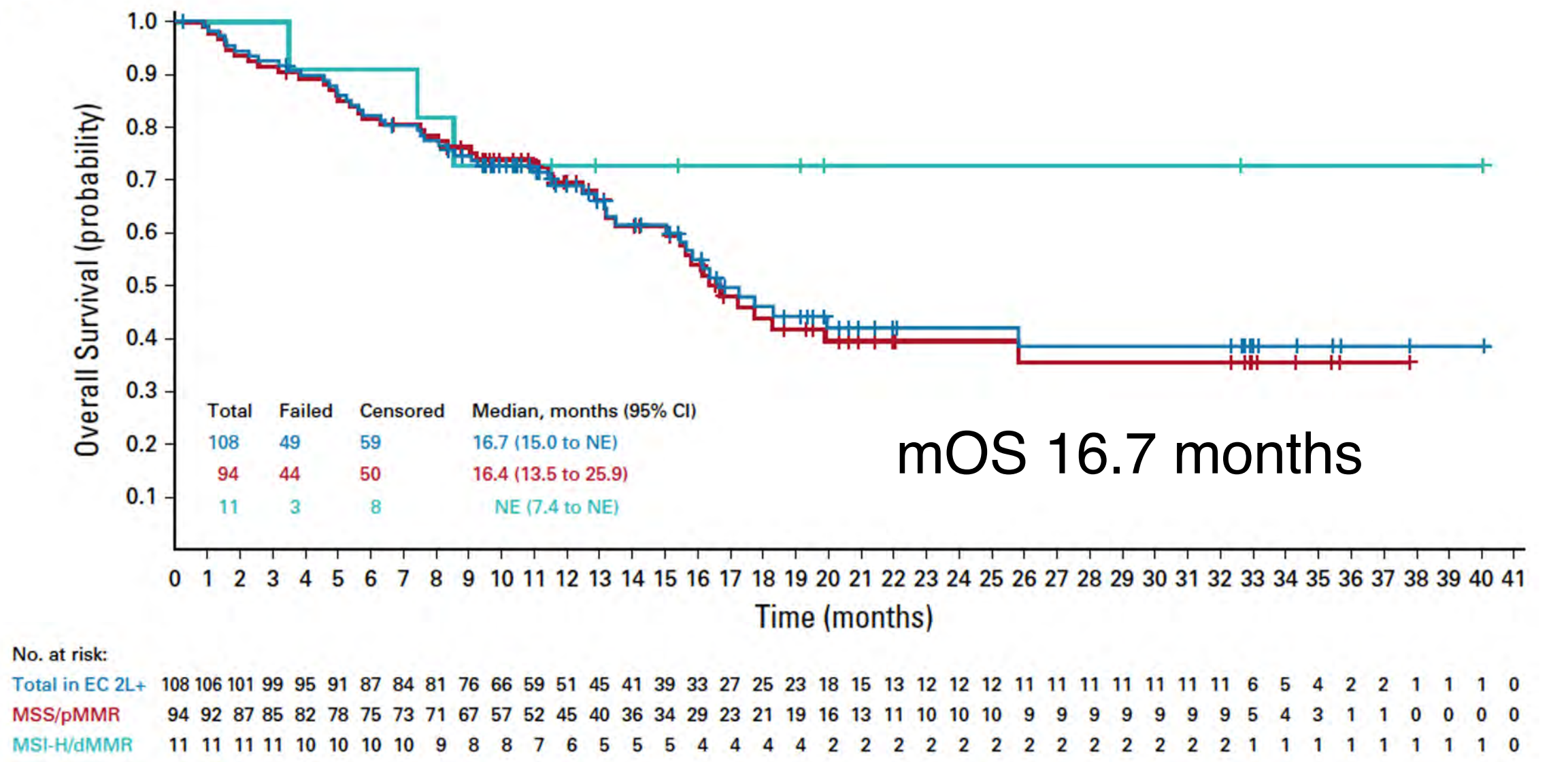
KEYNOTE-146: Objective Response Rate (ORRWk24)



KEYNOTE-146: Progression Free Survival



KEYNOTE-146: Overall Survival



KEYNOTE-146: Select Treatment-Related Adverse Events

Preferred Term or Basket	Previously Treated EC ^a (n = 108)		All EC (N = 124)	
	Any Grade	Grade 3/4	Any Grade	Grade 3/4
Patients with any treatment-related TEAEs	105 (97.2)	75 (69.4)	120 (96.8)	83 (66.9)
Hypertension ^b	66 (61.1)	35 (32.4)	74 (59.7)	39 (31.5)
Diarrhea	57 (52.8)	7 (6.5)	65 (52.4)	8 (6.5)
Fatigue	56 (51.9)	9 (8.3)	59 (47.6)	9 (7.3)
Decreased appetite	51 (47.2)	0	59 (47.6)	0
Hypothyroidism ^c	48 (44.4)	1 (0.9)	54 (43.5)	1 (0.8)
Nausea	43 (39.8)	3 (2.8)	48 (38.7)	3 (2.4)
Stomatitis	36 (33.3)	0	39 (31.5)	0
Pain and arthralgia ^d	34 (31.5)	2 (1.9)	37 (29.8)	2 (1.6)
Dysphonia	30 (27.8)	0	34 (27.4)	0
PPE and severe skin reactions ^e	29 (26.9)	5 (4.6)	32 (25.8)	6 (4.8)
Vomiting	29 (26.9)	0	31 (25.0)	0

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

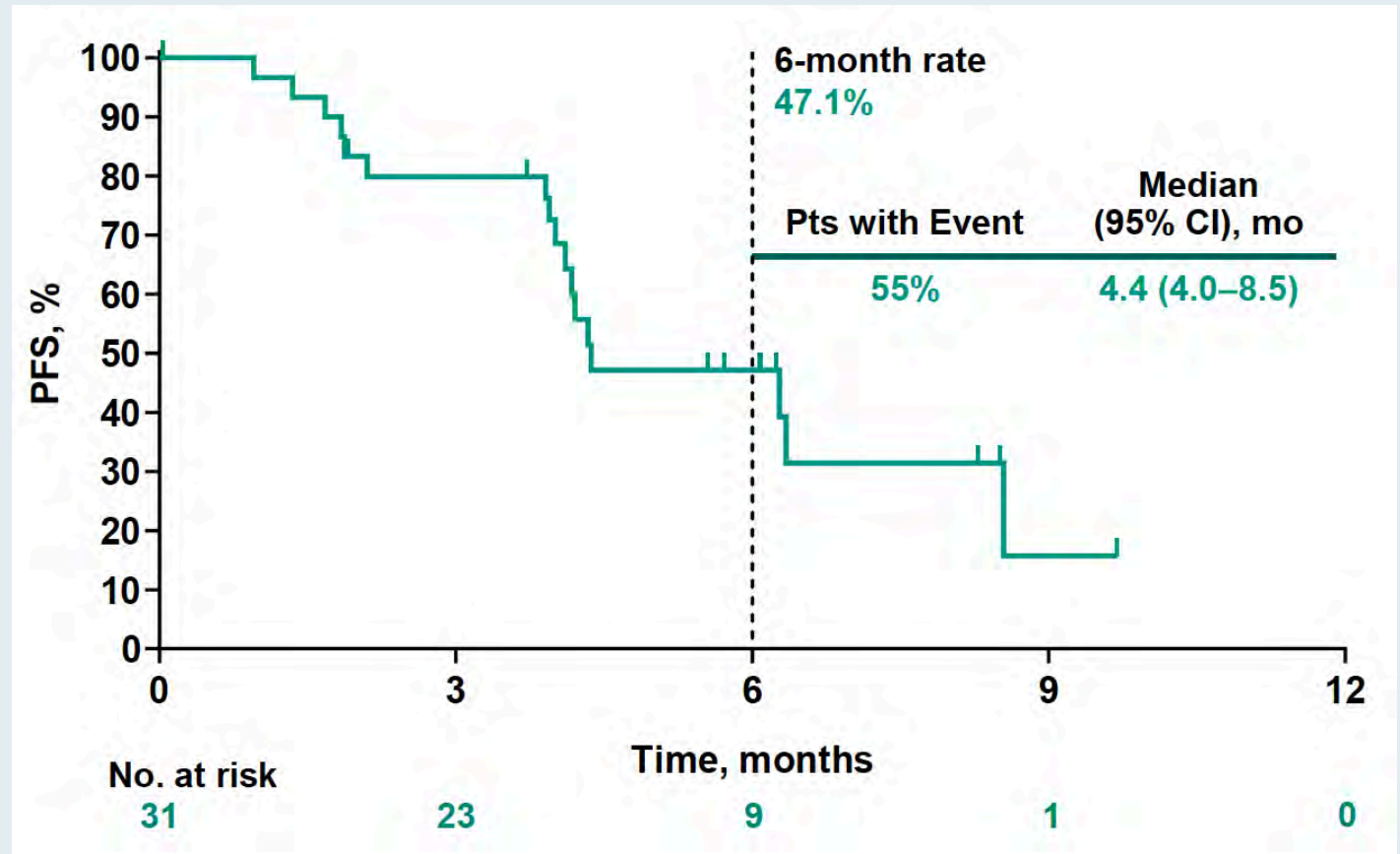
Lwin Z et al.

ESMO 2020;Abstract LBA41.

LEAP-005: Antitumor Activity in Ovarian Cancer Cohort

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

PFS: 4L Ovarian Cohort (n = 31)

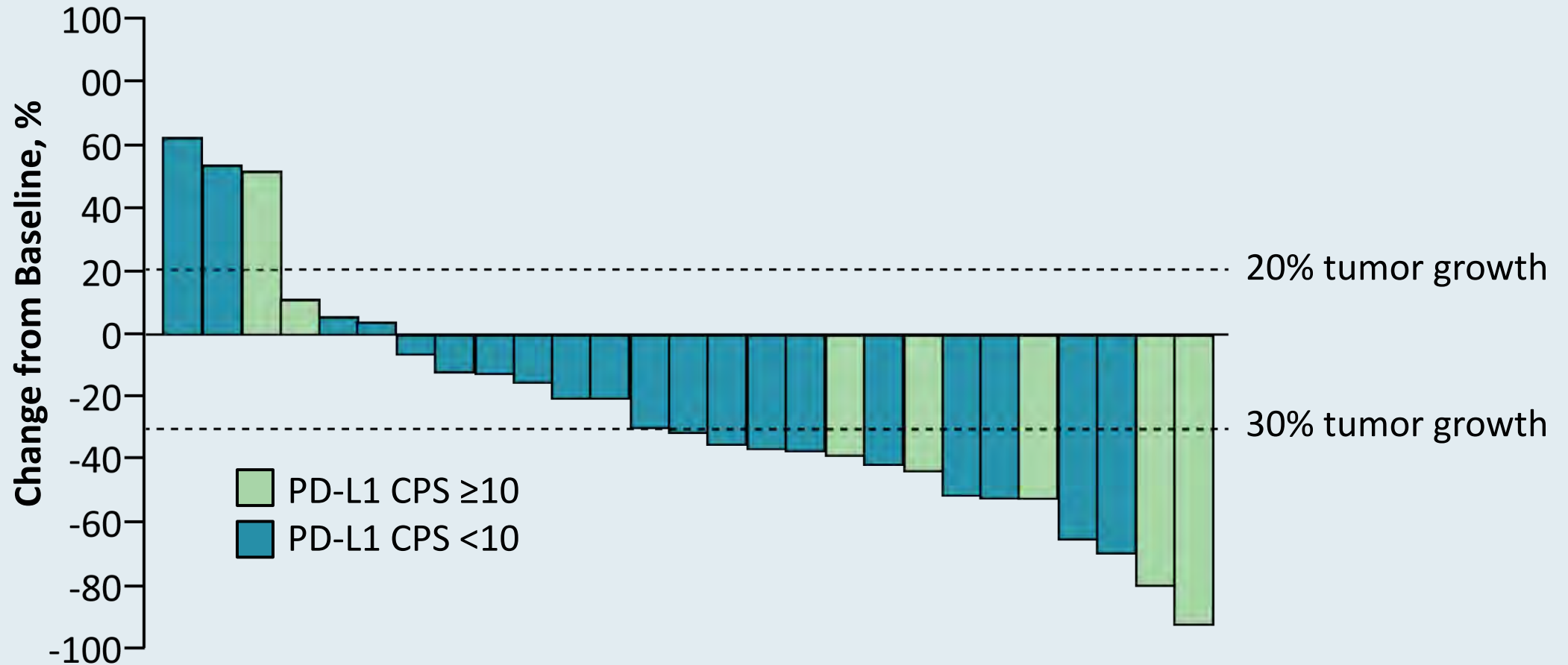


Lenvatinib plus Pembrolizumab for Previously Treated, Advanced Triple-Negative Breast Cancer: Early Results from the Multicohort Phase 2 LEAP-005 Study

Chung HC et al.

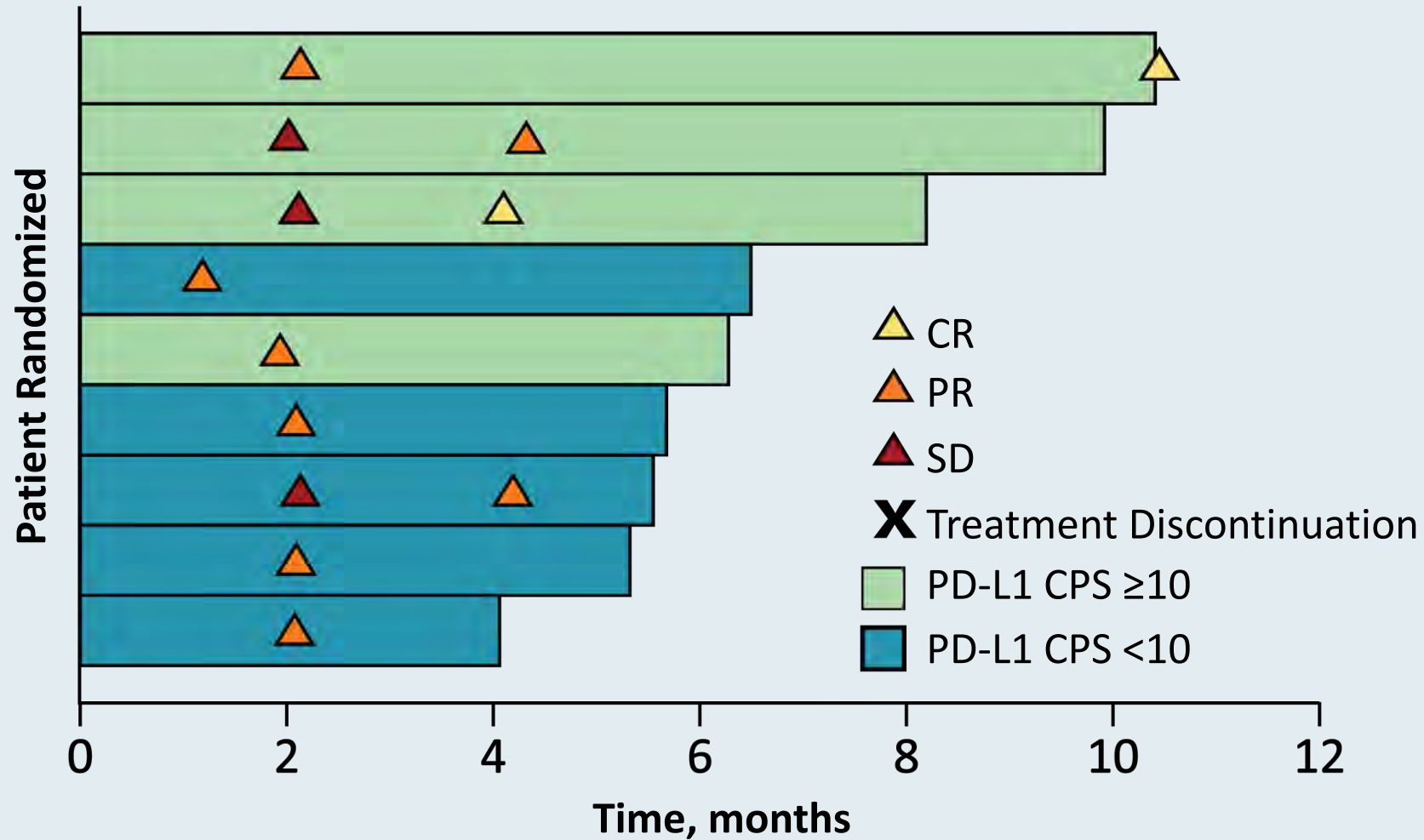
SABCS 2020;Abstract PS12-07.

LEAP-005: Best Percentage Change from Baseline in Target Lesion Size



Includes patients with one or more evaluable post-baseline imaging assessment (n = 27).

LEAP-005: Treatment Duration and Response Evaluation

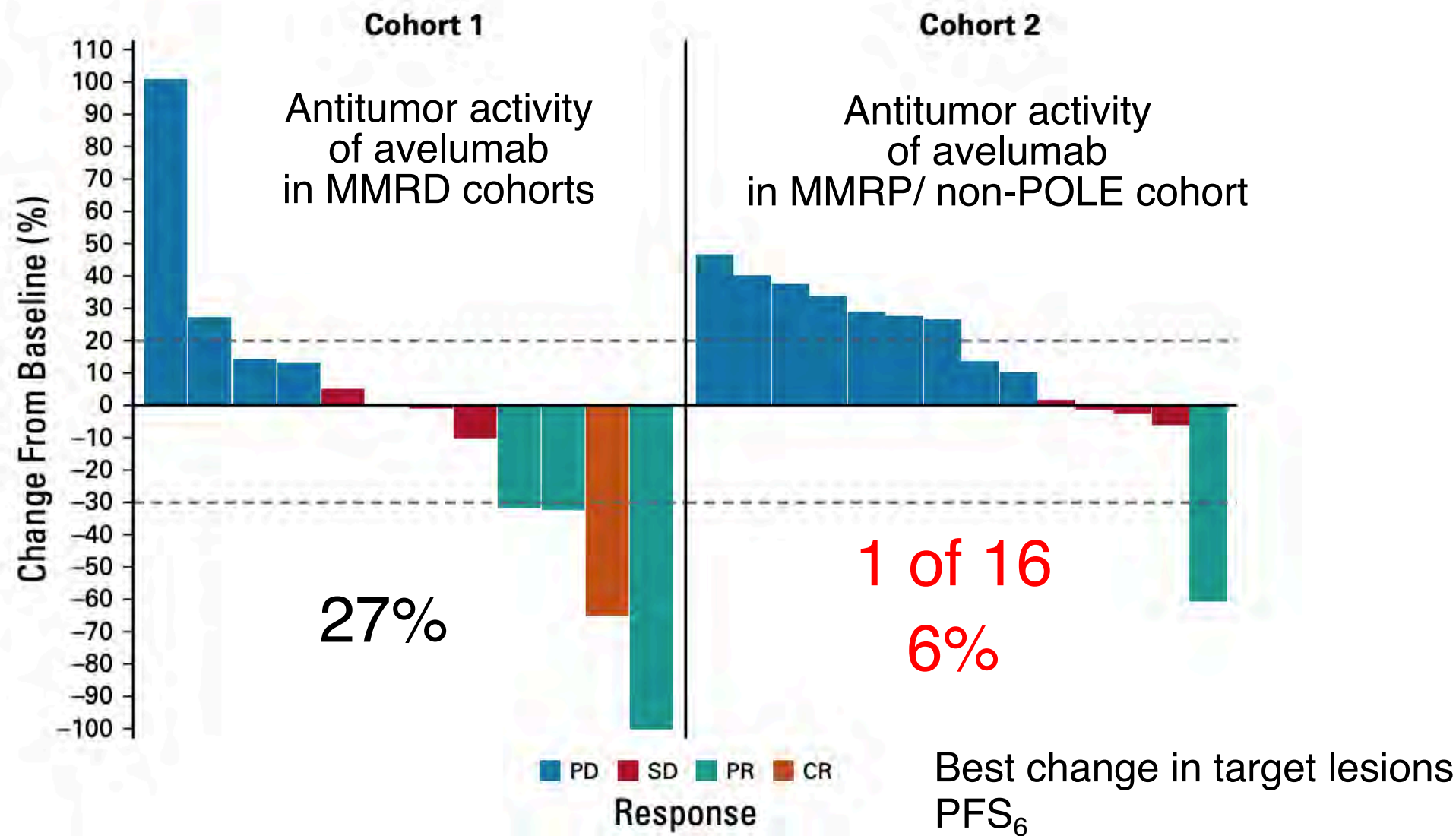


Phase II Study of Avelumab in Patients With Mismatch Repair Deficient and Mismatch Repair Proficient Recurrent/Persistent Endometrial Cancer

Panagiotis A. Konstantinopoulos, MD, PhD¹; Weixiu Luo, MS¹; Joyce F. Liu, MD¹; Doga C. Gulhan, PhD²; Carolyn Krasner, MD¹; Jeffrey J. Ishizuka, MD, DPhil¹; Allison A. Gockley, MD³; Mary Buss, MD, MPH⁴; Whitfield B. Growdon, MD⁵; Heather Crowe⁵; Susana Campos, MD, MPH¹; Neal I. Lindeman, MD³; Sarah Hill, MD, PhD³; Elizabeth Stover, MD, PhD¹; Susan Schumer, MD¹; Alexi A. Wright, MD, MPH¹; Jennifer Curtis, MS¹; Roxanne Quinn¹; Christin Whalen, RN¹; Kathryn P. Gray, PhD¹; Richard T. Penson, MD⁵; Stephen A. Cannistra, MD⁴; Gini F. Fleming, MD⁶; and Ursula A. Matulonis, MD¹

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

Objective Response Rate: Avelumab



JAMA Oncology | **Original Investigation**

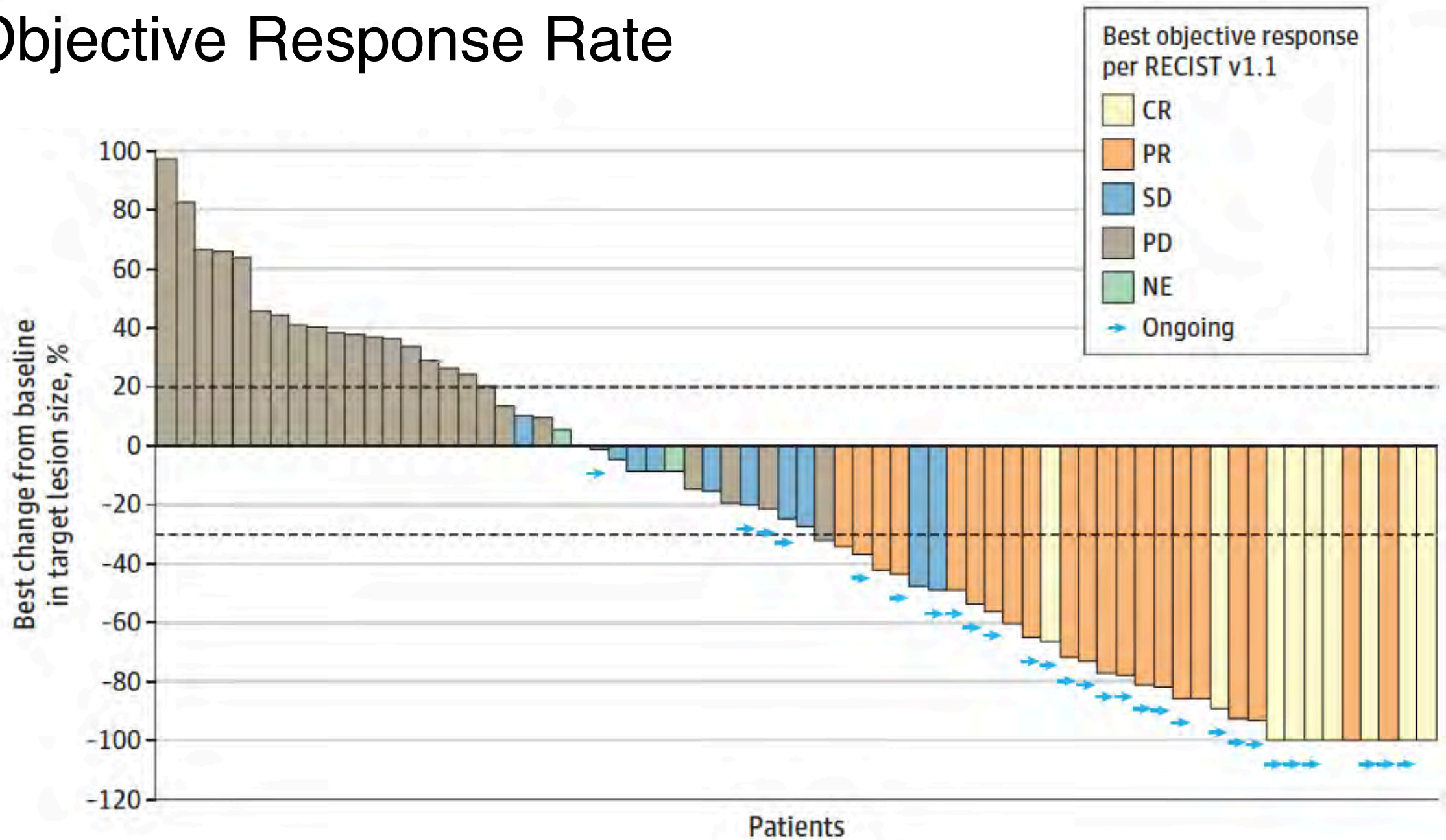
Clinical Activity and Safety of the Anti-Programmed Death 1 Monoclonal Antibody Dostarlimab for Patients With Recurrent or Advanced Mismatch Repair-Deficient Endometrial Cancer

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

JAMA Oncol 2020;6(11):1-7

Objective Response Rate



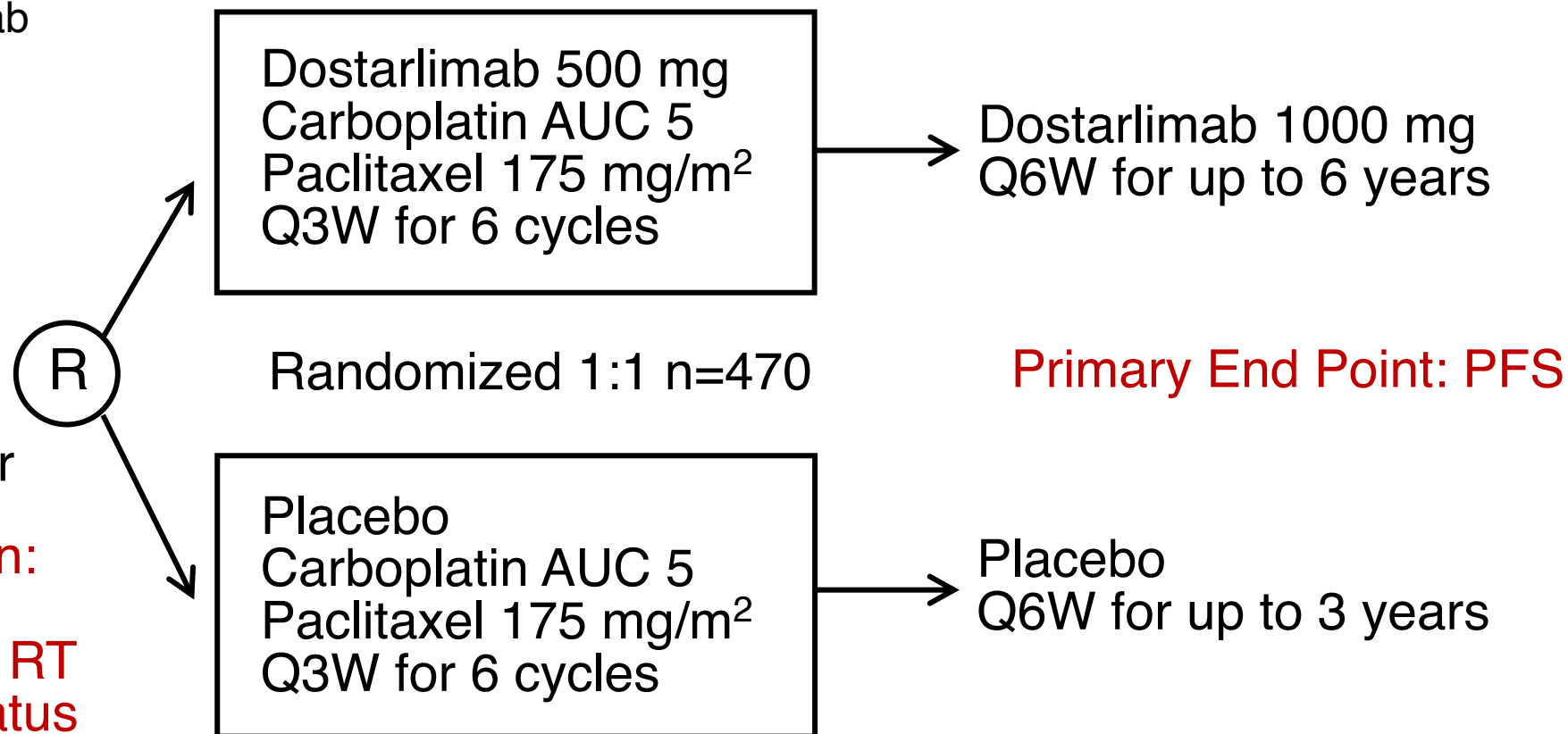
NCT03981796

GOG Pembrolizumab
NCT03914612

AtTEnd Avelumab
NCT03603184

Recurrent
or primary adv.
Stage III or IV
endometrial cancer

Stratification:
MSI status
Prior pelvic RT
Disease status



Mirza MR, et al. ENGOT-EN6/NSGO-RUBY
A Phase III, randomized, double-blind, multicenter study of
dostarlimab + carbo-paclitaxel versus placebo + carbo-paclitaxel in
recurrent or primary advanced EC. ASCO 2020;Abs TPS6107.

In general, what treatment would you recommend for a patient with microsatellite-stable (MSS) 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 microsatellite instability (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

When initiating lenvatinib and pembrolizumab for a woman with endometrial cancer, what is your typical starting dose of lenvatinib?

1. 20 mg qd
2. 14 mg qd
3. 10 mg qd
4. 8 mg qd
5. Other

Agenda

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Treatment of Endometrial and Cervical Cancers

Module 5: Endometrial cancer — Immune checkpoint inhibitors +/- lenvatinib

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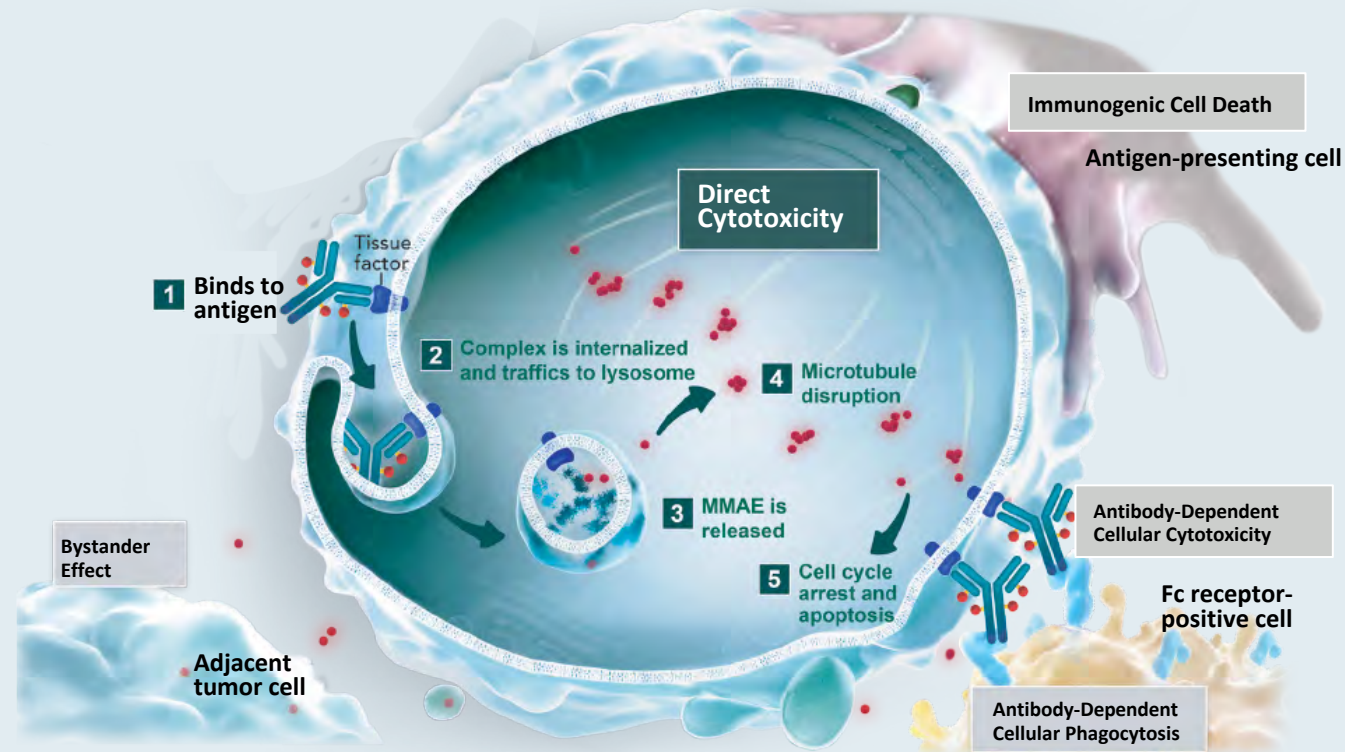
Module 6: Cervical cancer — Antibody-drug conjugates, immune checkpoint inhibitors

- **Key Relevant Data Sets**

- Tisotumab vedotin for previously treated recurrent or metastatic cervical cancer
- innovaTV 204: Tisotumab vedotin
- innovaTV 205: Tisotumab vedotin +/- bevacizumab, pembrolizumab or carboplatin
- KEYNOTE-158: Pembrolizumab for previously treated advanced cervical cancer

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}



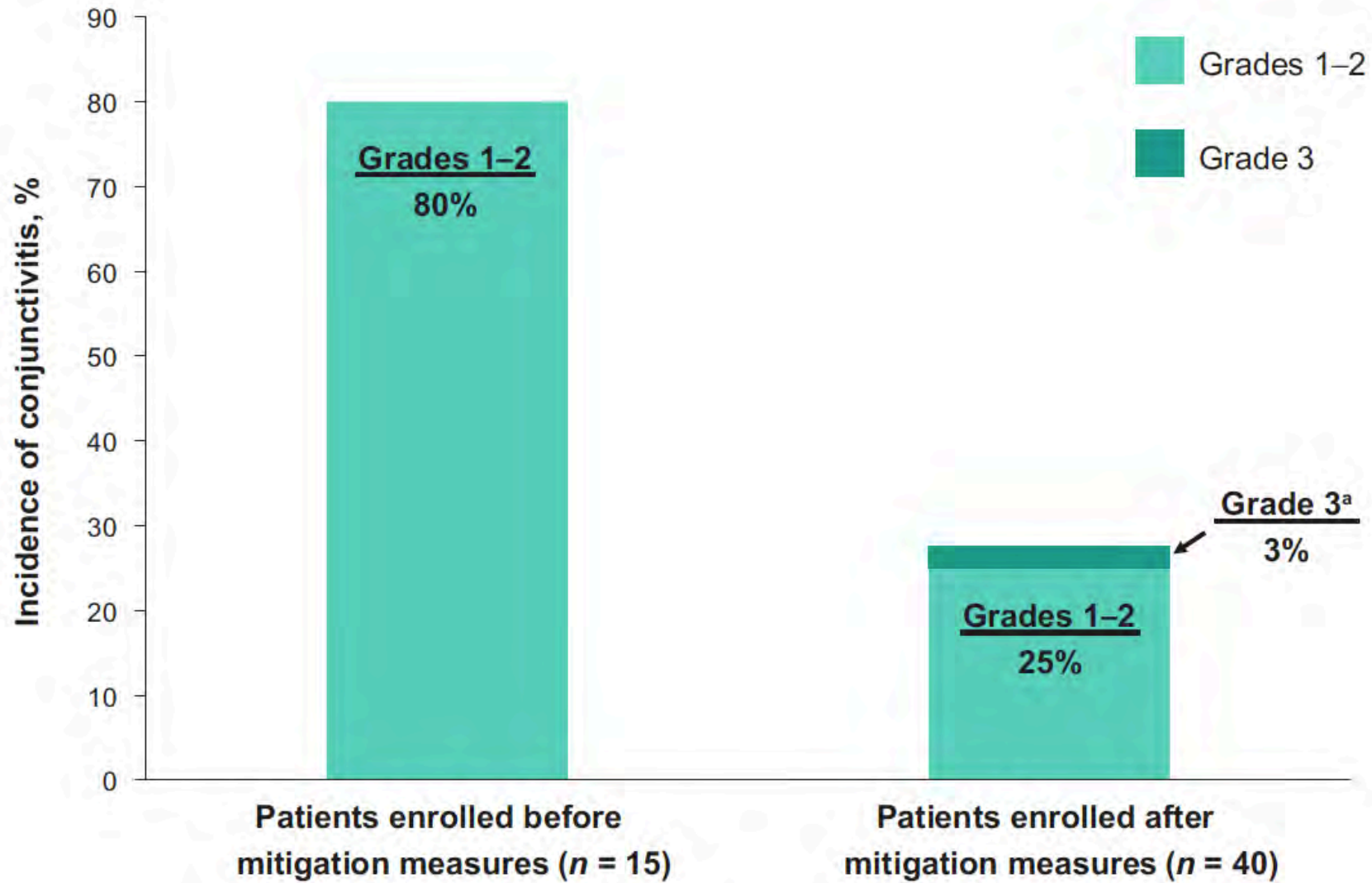
1. Förster Y, et al. *Clin Chim Acta*, 2006. 2. Cocco E, et al. *BMC Cancer*, 2011.
3. Breij EC, et al. *Cancer Res*, 2014. 4. De Goeij BE, et al. *Mol Cancer Ther*, 2015.

Tisotumab Vedotin in Previously Treated Recurrent or Metastatic Cervical Cancer

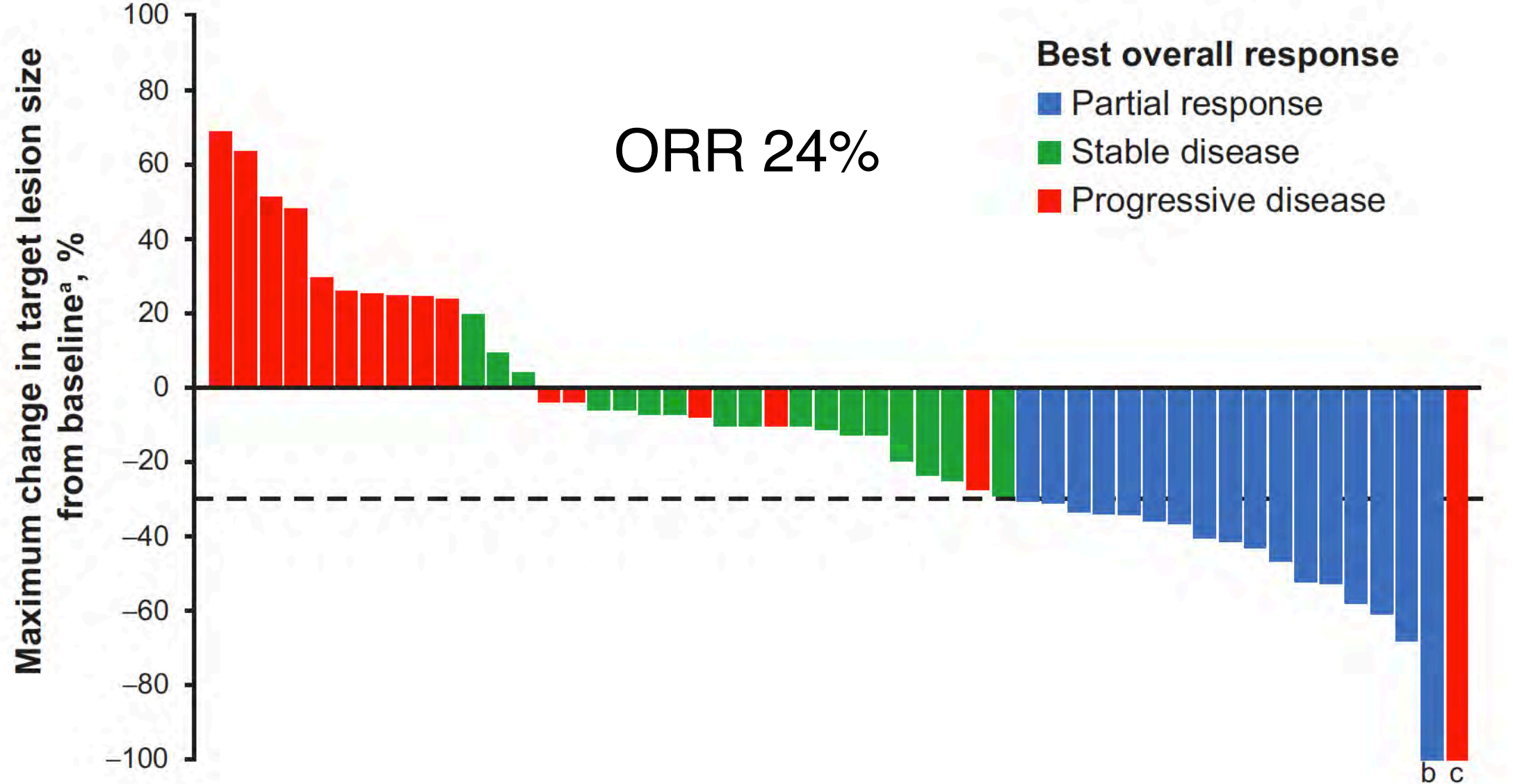
David S. Hong¹, Nicole Concin², Ignace Vergote², Johann S. de Bono³, Brian M. Slomovitz⁴, Yvette Drew⁵, Hendrik-Tobias Arkenau⁶, Jean-Pascal Machiels⁷, James F. Spicer⁸, Robert Jones⁹, Martin D. Forster¹⁰, Nathalie Cornez¹¹, Christine Gennigens¹², Melissa L. Johnson¹³, Fiona C. Thistlethwaite¹⁴, Reshma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

Clin Cancer Res 2020;26:1220–8

Toxicity



Objective Response Rate

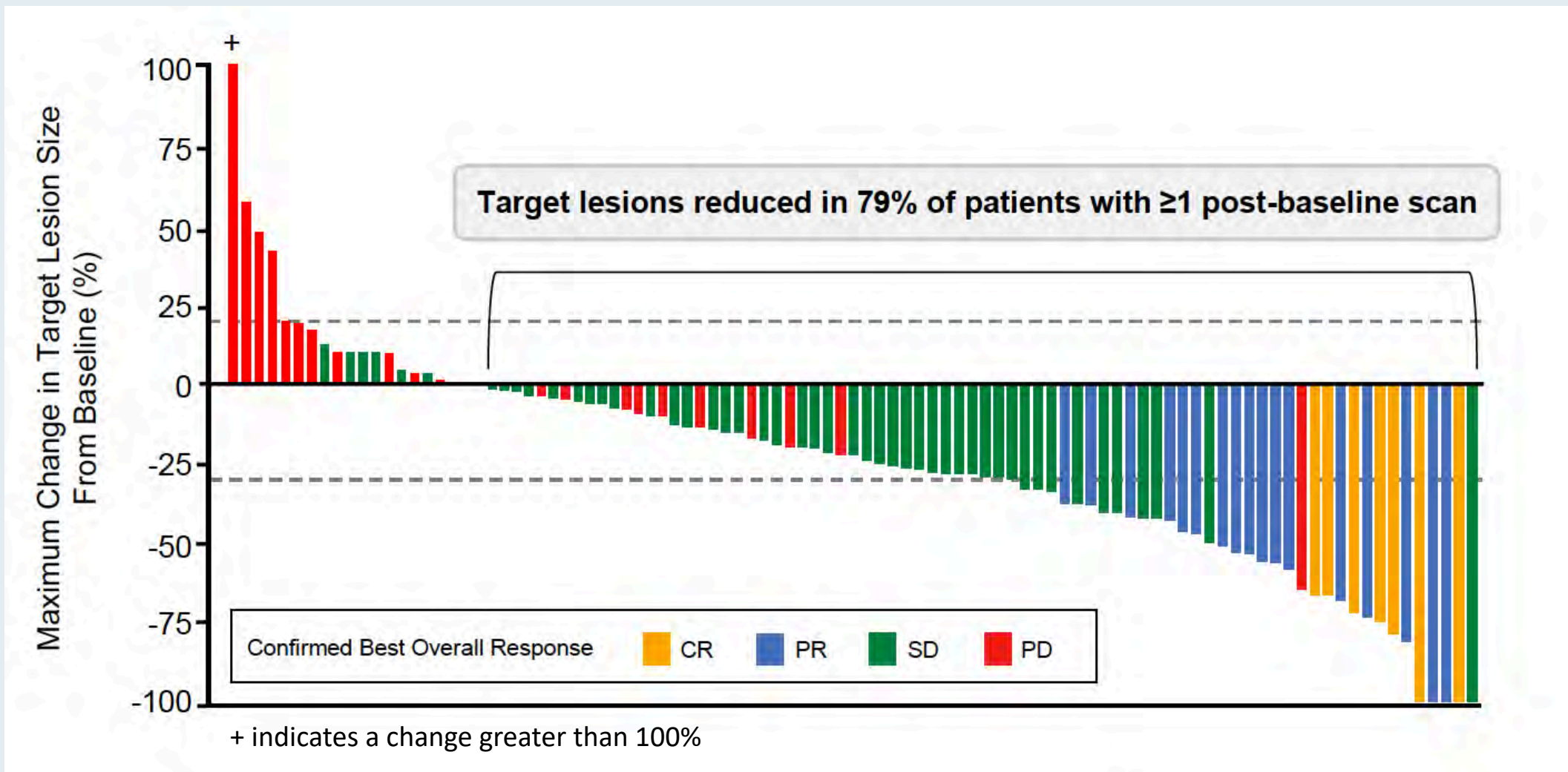


Tisotumab Vedotin in Previously Treated Recurrent or Metastatic Cervical Cancer: Results from the Phase II innovaTV 204/GOG-3023/ENGOT-cx6 Study

Coleman RL et al.

ESMO 2020;Abstract LBA32.

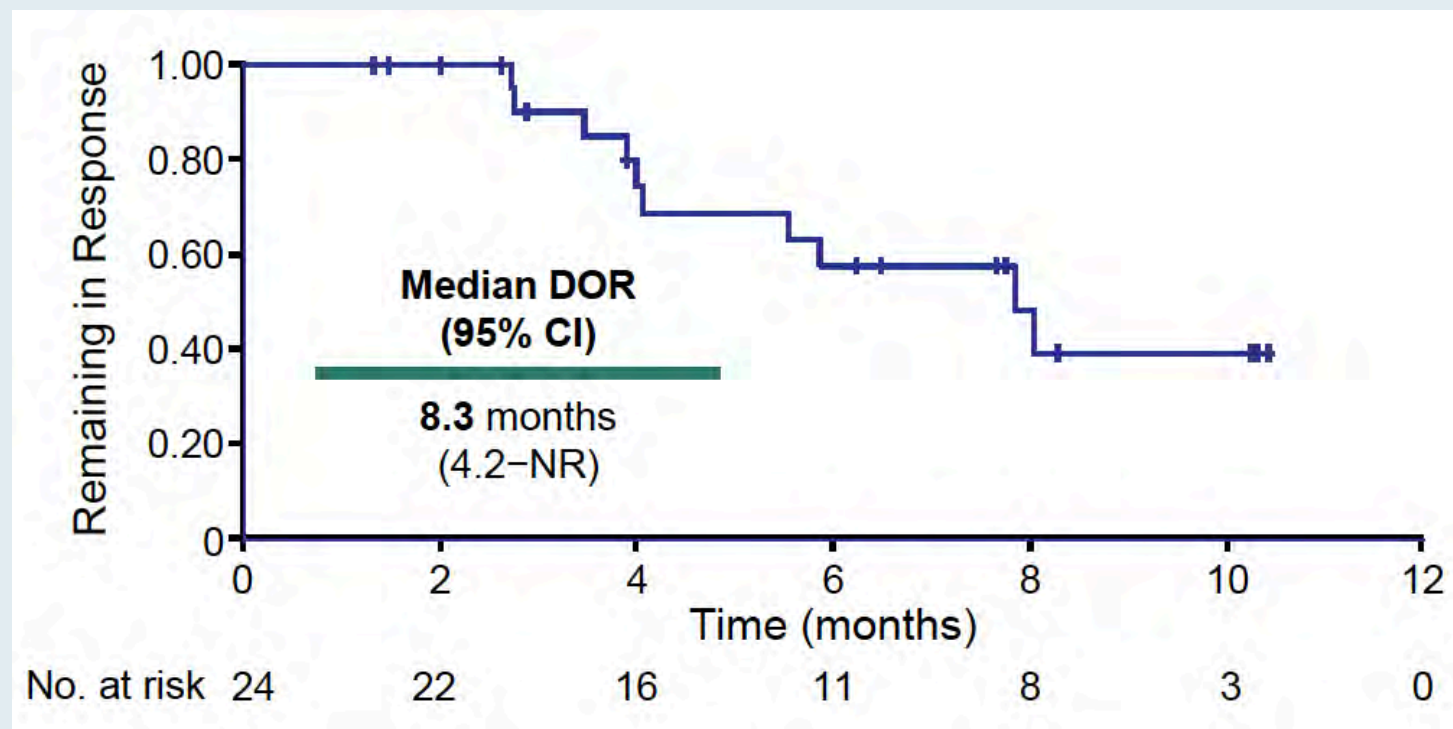
innovaTV 204: Maximum Change in Target Lesion Size by IRC Assessment



innovaTV 204: Antitumor Activity by IRC Assessment

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

Duration of Response



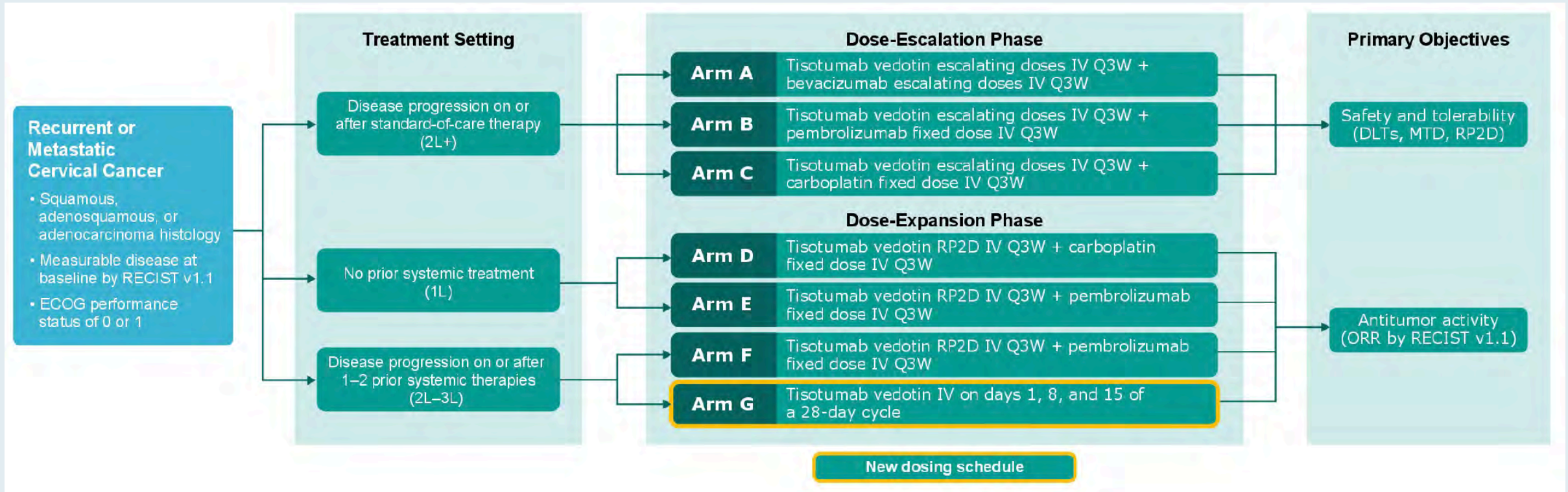
Phase Ib/II Trial of Tisotumab Vedotin ± Bevacizumab, Pembrolizumab, or Carboplatin in Recurrent or Metastatic Cervical Cancer (innova TV 205/ENGOT-cx8/ GOG-3024)

Vergote I et al.

ASCO 2020;Abstract TPS6095.

innovaTV 205: Phase Ib/II Trial Schema

Trial Identifier: NCT03786081



Efficacy and Safety of Pembrolizumab in Previously Treated Advanced Cervical Cancer: Results From the Phase II KEYNOTE-158 Study

Hyun Cheol Chung, MD, PhD¹; Willeke Ros, MSc²; Jean-Pierre Delord, MD, PhD³; Ruth Perets, MD, PhD⁴; Antoine Italiano, MD, PhD⁵; Ronnie Shapira-Frommer, MD⁶; Lyudmila Manzuk, MD⁷; Sarina A. Piha-Paul, MD⁸; Lei Xu, PhD⁹; Susan Zeigenfuss, RN⁹; Scott K. Pruitt, MD, PhD⁹; and Alexandra Leary, MD, PhD¹⁰

J Clin Oncol 2019;37(17):1470-8

KEYNOTE-158: Objective Response Rate

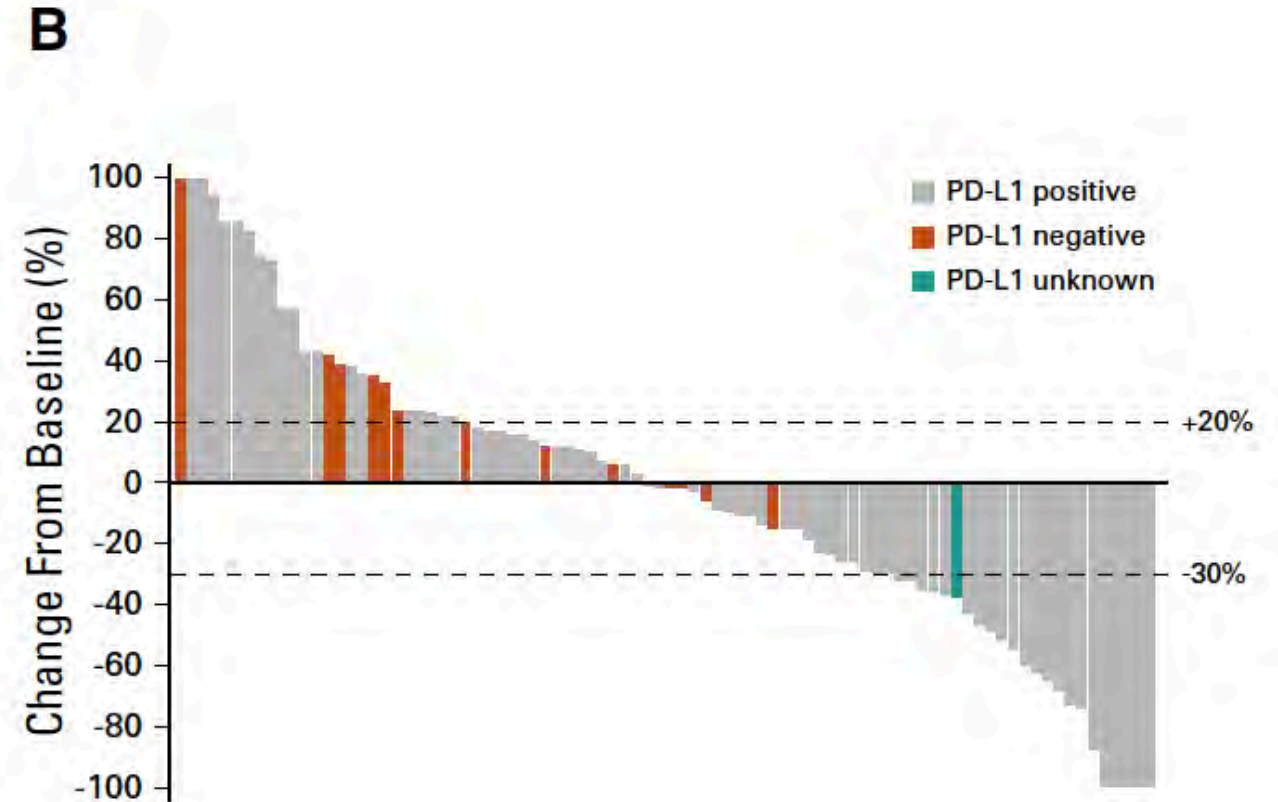
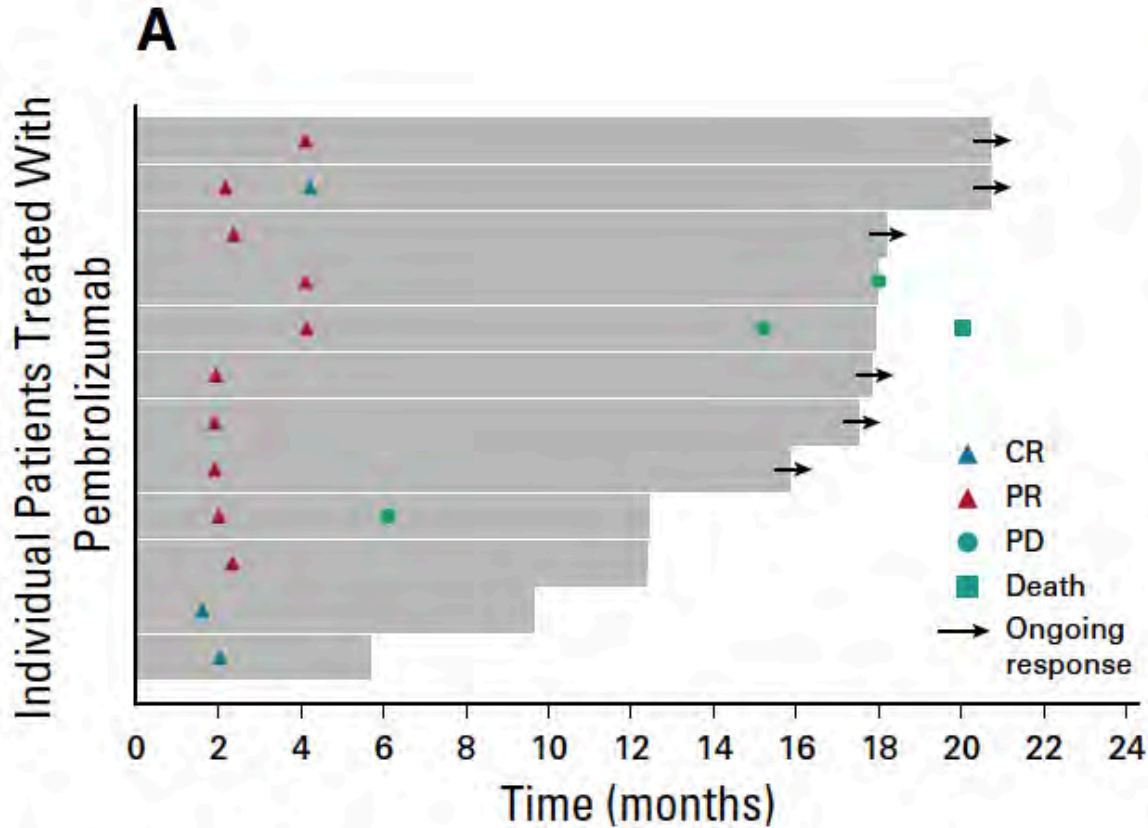
12%

Antitumor Activity	Total Population (N = 98)*	Total (n = 82)	Previously Treated (n = 77)†	PD-L1–Negative Population (n = 15)
ORR	12 (12.2)	12 (14.6)	11 (14.3)	0 (0.0)
95% CI	6.5 to 20.4	7.8 to 24.2	7.4 to 24.1	0.0 to 21.8
DCR	30 (30.6)	27 (32.9)	24 (31.2)	3 (20.0)
95% CI	21.7 to 40.7	22.9 to 44.2	21.2 to 42.7	4.3 to 48.1
Best overall response				
CR	3 (3.1)	3 (3.7)	2 (2.6)	0 (0.0)
PR	9 (9.2)	9 (11.0)	9 (11.7)	0 (0.0)
SD	18 (18.4)	15 (18.3)	13 (16.9)	3 (20.0)
Progressive disease	55 (56.1)	44 (53.7)	42 (54.5)	10 (66.7)
Not able to be evaluated‡	5 (5.1)	4 (4.9)	4 (5.2)	1 (6.7)
Not able to be assessed§	8 (8.2)	7 (8.5)	7 (9.1)	1 (6.7)
Time to response, months				
Median	2.1	2.1	2.2	—
Range	1.6-4.1	1.6-4.1	1.6-4.1	—
Duration of response, months ¶				
Median	NR	NR	NR	—
Range	≥ 3.7 to ≥ 18.6	≥ 3.7 to ≥ 18.6	4.1 to ≥ 18.6	—
Estimated rate of response duration, months ¶				
≥ 6	10 (90.9)	10 (90.9)	10 (90.9)	—
≥ 9	9 (90.9)	9 (90.9)	9 (90.9)	—
≥ 12	7 (79.5)	7 (79.5)	7 (79.5)	—

KEYNOTE-158: Objective Response Rate

Antitumor Activity	Total Population (N = 98)*	Total (n = 82)	Previously Treated (n = 77)†	PD-L1–Negative Population (n = 15)
ORR	12 (12.2)	12 (14.6)	11 (14.3)	0 (0.0)
95% CI	6.5 to 20.4	7.8 to 24.2	7.4 to 24.1	0.0 to 21.8

KEYNOTE-158: Duration of Response



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?

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

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

1. Pembrolizumab
2. Tisotumab vedotin
3. Other

Year in Review — Clinical Investigators Provide Perspectives on the Most Relevant New Publications, Data Sets and Advances in Oncology: Lymphomas

**Thursday, January 14, 2021
5:00 PM – 6:00 PM ET**

Faculty

**Christopher R Flowers, MD, MS
Sonali M Smith, MD**

Moderator

Neil Love, MD

Thank you for joining us!

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