



Ana Oaknin

AIMING TO IMPROVE FIRST-LINE THERAPY OUTCOMES: ADDING ANTI-PD-1(L1)TO PACLITAXEL/CARBOPLATIN

Phase 3 Trials

Newly diagnosed Stage III/Stage IV or recurrent EC. N=699 MSI status: Stratification factor	GOG-3041/ENGOT-EN11/DUO-E/ NCT04269200	A Randomised, Multicentre, Double-blind, Placebo-controlled, Phase III Study of First-line Carboplatin and Paclitaxel in Combination With Durvalumab, Followed by Maintenance <u>Durvalumab With or Without Olaparib</u> in Patients With Newly Diagnosed Advanced or Recurrent Endometrial Cancer
Stage III/IV with residual disease or recurrent endometrial cancer. N=550 MSI status: Stratification factor	Attend/ ENGOT-EN7 NCT03603184	Phase III Double-blind Randomized Placebo Controlled Trial of <u>Atezolizumab</u> in Combination With Paclitaxel and Carboplatin in Women With Advanced/Recurrent Endometrial Cancer
Stage III/IV or recurrent endometrial cancer (Stage II or IVA: measurable disease; Stage IVB or recurrent whether there is measurable disease or not) N = 590 pMMR patients N = 220 dMMR patients	NRG-GY-018 NCT03914612	Testing the Addition of the Immunotherapy Drug <u>Pembrolizumab</u> to the Usual Chemotherapy Treatment (Paclitaxel and Carboplatin) in Stage III-IV or Recurrent Endometrial Cancer
Recurrent or primary advanced (Stage III or IV) endometrial cancer Part 1 N = 470 Part 2 N = 270	GOG-3031/ENGOT-EN6/RUBY NCT03981796	A Phase 3, Randomized, Double-blind, Multicenter Study of <u>Dostarlimab With or Without Niraparib</u> Plus Carboplatin-paclitaxel Versus Placebo Plus Carboplatin-paclitaxel in Patients With Recurrent or Primary Advanced Endometrial Cancer

ESMO VIRTUAL
PLenary



Mansoor R. Mirza



ESMO VIRTUAL PLenary

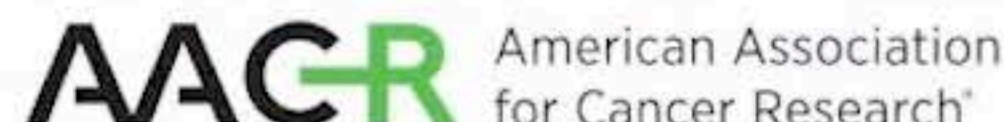
WITH AACR EXPERT COMMENTARY

DOSTARLIMAB IN COMBINATION WITH CHEMOTHERAPY FOR THE TREATMENT OF PRIMARY ADVANCED OR RECURRENT ENDOMETRIAL CANCER: A PLACEBO- CONTROLLED RANDOMIZED PHASE 3 TRIAL (ENGOT-EN6-NSGO/GOG-3031/RUBY)

Mansoor R. Mirza,¹ Dana Chase,^{2*} Brian Slomovitz,³ René DePont Christensen,⁴ Zoltán Novák,⁵ Destin Black,⁶ Lucy Gilbert,⁷ Sudarshan Sharma,⁸ Giorgio Valabrega,⁹ Lisa M. Landrum,¹⁰ Lars C. Hanker,¹¹ Ashley Stuckey,¹² Ingrid Boere,¹³ Michael A. Gold,¹⁴ Sarah E. Gill,¹⁵ Bradley J. Monk,¹⁶ Zangdong He,¹⁷ Shadi Stevens,¹⁸ Robert L. Coleman,¹⁹ Matthew A. Powell²⁰

¹Department of Oncology, Rigshospitalet, Copenhagen University Hospital, Copenhagen, and Nordic Society of Gynecologic Oncology-Clinical Trial Unit, Copenhagen Denmark; ^{2*}David Geffen School of Medicine at UCLA, Los Angeles, CA, USA; ³Department of Gynecologic Oncology, Mount Sinai Medical Center, and Department of Obstetrics and Gynecology, Florida International University, Miami Beach, FL, USA; ⁴Research Unit for General Practice, University of Southern Denmark, Institute of Public Health, Odense, Denmark; ⁵Department of Gynecology, Hungarian National Institute of Oncology, Budapest, Hungary; ⁶Department of Obstetrics and Gynecology, LSU Health Shreveport, and Wilks-Knighton Physician Network, Shreveport, LA, USA; ⁷Division of Gynecologic Oncology, McGill University Health Centre, Montreal, Quebec, Canada; ⁸Department of Obstetrics/Gynecology, AMITA Adventist Hinsdale Hospital, Hinsdale, IL, USA; ⁹University of Torino, AO Ordine Mauriziano, Torino, Italy; ¹⁰Indiana University Health and Simon Cancer Center, Indianapolis, IN, USA; ¹¹Department of Gynecology and Obstetrics, University Hospital Schleswig Holstein, Campus Lübeck, Lübeck, Germany; ¹²Women and Infants Hospital, Providence, RI, USA; ¹³Department of Medical Oncology, Erasmus MC Cancer Centre, Rotterdam, The Netherlands; ¹⁴Oklahoma Cancer Specialists and Research Institute, Tulsa, OK, USA; ¹⁵Division of Gynecologic Oncology, Nancy N. and JC Lines Cancer and Research Pavilion, Savannah, GA, USA; ¹⁶HonorsHealth Research Institute, University of Arizona College of Medicine, Phoenix, and Creighton University School of Medicine, Phoenix, AZ, USA; ¹⁷GSK, Collegeville, PA, USA; ¹⁸GSK, London, UK; ¹⁹US Oncology Research, The Woodlands, TX, USA; ²⁰National Cancer Institute sponsored NRG Oncology, Washington University School of Medicine, St. Louis, MO, USA.

*Current affiliation: Affiliation at time of study Arizona Center for Cancer Care, Creighton University School of Medicine Phoenix, AZ, USA





FINANCIAL DISCLOSURES

Dr Mirza reports consulting or advisory role at AstraZeneca, Biocad, GSK, Karyopharm, Merck, Roche, Zailab; speakers' bureau fees from AstraZeneca and GSK; research funding (to institution) from Apexigen, AstraZeneca, Deciphera (trial chair), GSK, and Ultimovacs; and personal financial interest in Karyopharm (stocks/shares, member of Board of Directors)

Other authors: **Dr Chase** reports speaker bureau fees and/or advisory roles from GSK, AstraZeneca, Clovis, and Genentech/Roche; and consulting fees from GSK, AstraZeneca, Clovis, and Genentech/Roche. **Dr Slomovitz** reports advisory fees from AstraZeneca, Clovis, Genentech, GSK, GOG Foundation, Merck, Myriad, Jazz Pharma, Onconova, Nuvation Bio, EQRX, Regeneron, Eisai, and Incyte; and Board of Director member for GOG Foundation and HOW: Hearing Ovarian Cancer Whispers. **Dr dePont Christensen** reports direct consulting payment from Nordic Society for Gynecologic Oncology for the RUBY P1 Primary ms; consulting fees from Karyopharm; payment for advisory board DMC participation from the Swiss GO Trial Group (MATAO trial); and stock options from Y-mAbs Therapeutics. **Dr Novak** reports honoraria from Sofmedica, AstraZeneca, and MSD; support for attending meetings from Sofmedica and Preglem; participation on a Data Safety Monitoring Board or Advisory Board from AstraZeneca and Richter Gedeon; leadership role as the President of Hungarian Society of Gynecologic Oncology; stock options from Richter Gedeon; and receipt of equipment, materials, drugs, medical writing, gifts or other services from AstraZeneca. **Dr Black** reports institutional grant fees from GSK; fees for being a Member of GOG Partners Investigational Council; and medical director/owner of Trials365, LLC. **Dr Gilbert** reports institutional grants from Alkermes, AstraZeneca, Clovis, Esperas, IMV, ImmunoGen Inc, Karyopharm, Merck Sharp & Dohme, Mersana, Novocure GmbH, OncoQuest Pharmaceuticals, Pfizer, Roche, and Tesaro; consulting fees from Merck; and honoraria from Alkermes, AstraZeneca, Eisai, Eisai-Merck, and GSK. **Dr Valabrega** reports consulting/advisory fees from Amgen, AstraZeneca, Clovis Oncology, GSK, PharmaMar, Roche, and Tesaro. **Dr Harker** reports consulting/advisory fees from Amgen, AstraZeneca, Clovis Oncology, Eisai, GSK, Intuitive Surgery, Janssen, MSD, Novartis, Pfizer, PharmaMar, Roche, and Tesaro. **Dr Stuckey** reports royalties as an UpToDate reviewer. **Dr Boere** reports institutional research grant from GSK; and institutional advisory board meeting fees from AstraZeneca and GSK. **Dr Monk** reports consulting fees from VBL, US Oncology Research, Sorrento, Regeneron, Puma, Pfizer, Myriad, Novocure, Novartis, Mersana, MacroGenics, Iovance, Karyopharm, ImmunoGen, Gradalis, GOG Foundation, Genmab/Seagen, EMD Merck, Elevar, Bayer, Aravive, Amgen, Akeso Bio, and Agenus and speaker's bureau honoraria from TESARO/GSK, Roche/Genentech, Merck, Eisai, Clovis, AstraZeneca. **Dr Coleman** reports grants or contracts from AstraZeneca, Clovis, Genelix, Genmab, Merck, Immunogen, and Roche/Genentech; consulting fees from Abbvie, Agenus, Alkermes, AstraZeneca, Clovis, Deciphera, Genelix, Genmab, GSK, Immunogen, Novocure, Merck, OncoQuest, Onxerna, Regeneron, and Roche/Genentech; honoraria from AstraZeneca, Clovis, Merck, and Roche/Genentech; and participation on a Data Safety Monitoring Board or Advisory Board from Eisai/BMS and VBL Therapeutics. **Dr Powell** reports consulting/advisory fees from GSK, Tesaro, Merck, Eisai, Seagen, Clovis Oncology, and AstraZeneca. **Dr Gill, Dr Gold, Dr Landrum, and Dr Sharma** have nothing to disclose. **Dr Stevens** and **Dr He** are employees of GSK.

This study (NCT03981796) was funded by GSK, Waltham, MA, USA



We sincerely thank the patients and their families for participating in this trial, and all of the investigators and cooperative groups.

NSGO	AGO	BGOG	CEEGOG	DGOG	HeGOG	ISGO	MITO	NCRI	PGOG	TRSGO	GOG FOUNDATION		
Denmark Finland Norway Sweden	Germany	Belgium	Belarus Czech Republic Hungary Ukraine	Netherlands	Greece	Israel	Italy	UK	Poland	Turkey	Canada	USA	
Mansoor Raza Mirza Adam Andrzej Luczak Nicoline Raaschou-Jensen Trine Lembrecht Jørgensen Jørn Herrestedt Annika Auranen Sakari Hietanen Marjo Tuppurainen Line Bjørge Kristina Lindemann Nilsen Elisabeth Berge Anne Gry Bentzen Guro Aune Bolling Magnus Frødin Anthoula Koliadi Gabriel Lindahl	Martina Gropp-Meier Eva-Maria Grischke Lars Høker Antje Lohrert Dirk Bauerschlag Dominik Denschlag Beyhan Atasseven Thomas Papatheodis	Christine Gennigens Greet Huygh	Mikalai Pishchik David Cibula Andrea Bagamieri Vladislav Sukhin Oleksandr Zub	Ingrid Boer Roy Lalising Anna Reyniers Machteld Wymenga Annemarie Thijs	George Fountzilas	Daliah Tsoref Tamar Safra Mihai Meirovitz Yakir Sogev Shani Breuer	Francesco Raspagliesi Graziana Ronzino Elena Geuna Antonella Savarose Laura Lombardo Laura Zavallone Massimiliano Nicolini Roberto Angiolini	Joo Ern Ang Gemma Eminowicz Rebecca Herbertson	Aneta Cymbaluk-Ploska Beata Maćkowiak-Matejczyk	Fuat Demirkiran Ilhan Hacibekiroglu Mehmet Coskun Salman Levent Yasar	Lucy Gilbert Vanessa Samouelian Johanne Weberpals Alexandra Sebastianelli Ioannis Voutsadakis	Amy Armstrong Radhika Gogoi David Bender Guillermo Cantuaria Christina Chu Michael Callahan Mark S. Shahin Tashanna Myers Cara Mathews Robert Holloway Kan Ring Nicole Nevadunsky Bhavana Pothun Jonathan Berek Sarah Gill Matthew Schlumberger Sara Boubertan Matthew Powell Kathryn Pennington Angeles Secord Sudarshan Sharma Helen Eshed Rachel Miller	Evelyn Fleming Brandon Sawyer David Iglesias Einwen Miller Caroline Billingsley Joyce Barin Destin Black Barbara Buttin Kellie Schneider Jonathan Boone Michael A. Gold Lisa Landrum Paul Nowicki Sharad Ghamande Dana Chase Joseph Buscema Noelle Cloven John Diaz Alberto Mendivil Iwona Podzielinski Joshua Trinidad Floor Backes

This study (ENGOT-EN6-NSGO/GOG-3031/RUBY; NCT03981796) was funded by GSK (Waltham, MA, USA). Writing and editorial support, under the direction of the authors, was funded by GSK (Waltham, MA, USA) and were provided by Shannon Morgan-Pelosi, PhD, and Mary Wiggins of Ashfield MedComms, an Inizio Company.

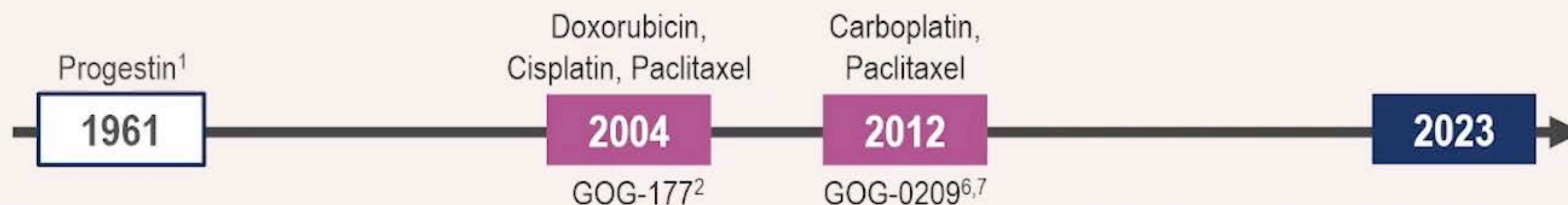
ESMO VIRTUAL PLenary
WITH AACR EXPERT COMMENTARY

ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright and responsibility of the author.
Permission is required for re-use



- Carboplatin/paclitaxel (CP) is standard of care for first-line treatment of primary advanced or recurrent EC; however long-term outcomes remain poor, with median OS <3 years^{1,2}
- Anti-PD-1 based therapy has transformed the management of EC post-platinum chemotherapy³⁻⁵
- Advances in first-line systemic treatment are urgently needed



1. Yang S, et al. *Discov Med*. 2011;12:205-212. 2. Fleming GF, et al. *J Clin Oncol*. 2004;22:2159-2166. 3. Oaknin A, et al. *J Immunother Cancer*. 2022;10(1):e003777. 4. O'Malley DM, et al. *J Clin Oncol*. 2022;40(7):752-761. 5. Makker V, et al. *N Engl J Med*. 2022;386:437-448. 6. Miller DS, et al. *Gynecol Oncol*. 2012;125:771-773. 7. Miller DS, et al. *J Clin Oncol*. 2020;38:3841-3850.

ESMO VIRTUAL PLenary
WITH AACR EXPERT COMMENTARY

ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright
and responsibility of the author.
Permission is required for re-use.



STUDY RATIONALE

Dostarlimab

- Durable activity in both dMMR/MSI-H and MMRp/MSS previously treated EC¹
- dMMR/MSI-H EC is associated with:
 - High TMB/TILs²
 - Higher response rate to anti-PD-1¹



Chemotherapy

- Enhances immunogenic cell-death^{3,4}
- Reduces immunosuppression in TME^{3,4}
- Broad clinical activity when combined with anti-PD-1 in several cancers⁵⁻⁸

Study Hypothesis

Dostarlimab + CP will improve outcomes in the **dMMR/MSI-H** and **overall** primary advanced or recurrent EC patient populations vs CP alone

CP, carboplatin-paclitaxel; dMMR, mismatch repair deficient; EC, endometrial cancer; MMRp, mismatch repair proficient; MSI-H, microsatellite instability-high; MSS, microsatellite stable; PD-1, programmed death protein-1; TIL, tumor infiltrating lymphocytes; TMB, tumor mutational burden; TME, tumor microenvironment.
 1. Oaknin A, Gilbert L, Tinker AV, et al. *J Immunother Cancer*. 2022;10:e003777. 2. Song Y, et al. *Onco Targets Ther*. 2021;14:4485-4497. 3. Emens LA, Middleton G. *Cancer Immunol*. 2015;3(5):436-443. 4. Hato SV, et al. *Clin Cancer Res*. 2014;20:2831-2837. 5. Gandhi L, et al. *N Engl J Med*. 2018;378:2078-92. 6. Paz-Ares L, et al. *N Engl J Med*. 2018;379:2040-51. 7. Janjigian YY, et al. *Lancet*. 2021;398:27-40. 8. Burtress B, et al. *Lancet*. 2019;394:1915-1928.



ENGOT-EN6-NSGO/GOG-3031/RUBY (NCT03981796)

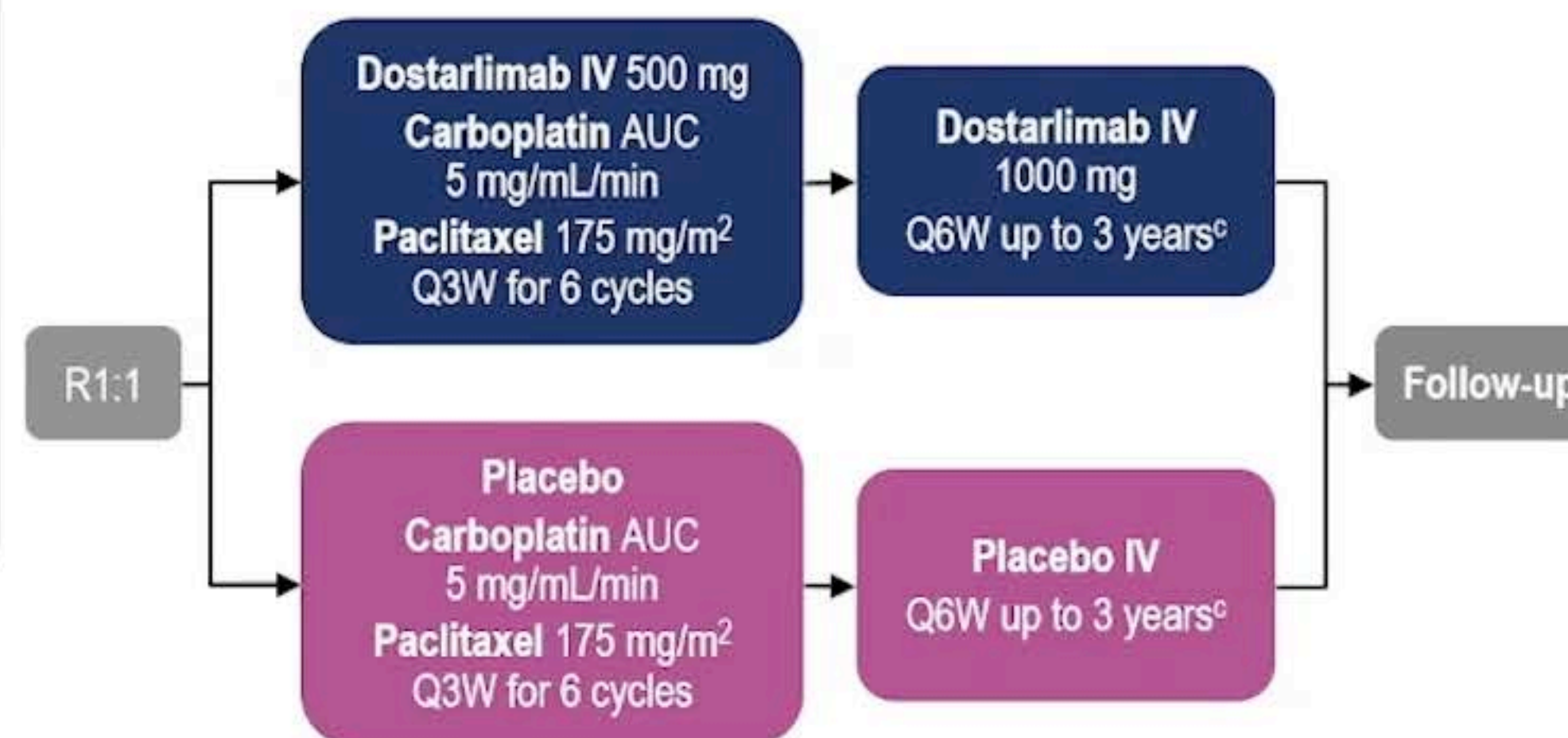
Phase 3, randomized, double-blind, multicenter study of dostarlimab plus carboplatin-paclitaxel versus placebo plus carboplatin/paclitaxel in patients with primary advanced or recurrent EC

Eligible patients

- Histologically/cytologically proven advanced or recurrent EC
- Stage III/IV disease or first recurrent EC with low potential for cure by radiation therapy or surgery alone or in combination
 - Carcinosarcoma, clear cell, serous, or mixed histology permitted^a
- Naïve to systemic therapy or systemic anticancer therapy and had a recurrence or PD ≥ 6 months after completing treatment
- ECOG PS 0-1
- Adequate organ function

Stratification

- MMR/MSI status^b
- Prior external pelvic radiotherapy
- Disease status



Primary endpoint

- PFS by INV
- OS

Secondary endpoints

- PFS by BICR
- PFS2
- ORR
- DOR
- DCR
- HRQOL/PRO
- Safety

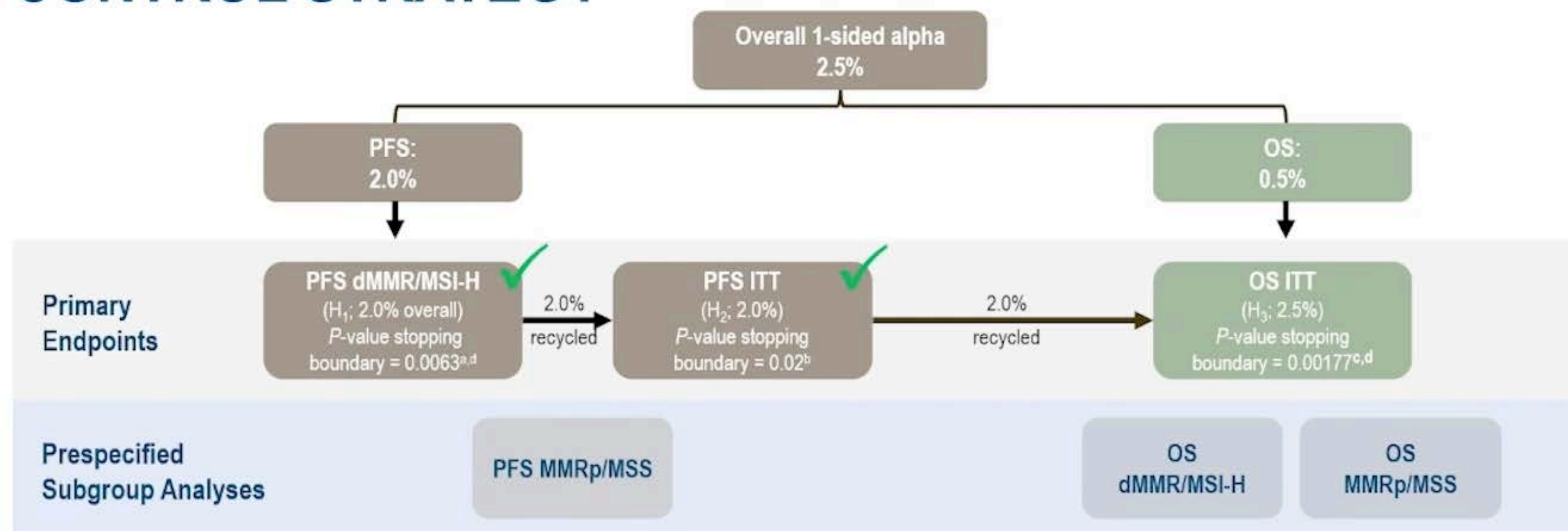
On-study imaging assessments are to be performed Q6W (± 7 days) from the randomization date until Week 25 (Cycle 8), followed by Q9W (± 7 days) until Week 52. Subsequent tumor imaging is to be performed every 12 weeks (± 7 days) until radiographic PD is documented by investigator assessment per RECIST v1.1 followed by one additional imaging 4-6 weeks later or subsequent anticancer therapy is started, whichever occurs first. Thereafter, scans may be performed per standard of care.

*Mixed histology containing at least 10% carcinosarcoma, clear cell, or serous histology. †Patients were randomized based on either local or central MMR/MSI testing results. Central testing was used with local results were not available. For local determination of MMR/MSI status, IHC, next generation sequencing, and polymerase chain reaction assays were accepted. For central determination of MMR/MSI status IHC per Ventana MMR Rx Dx panel was used. ‡Treatment ended after 3 years, PD, toxicity, withdrawal of consent, investigator's decision, or death, whichever occurs first. Continued treatment with dostarlimab or placebo beyond 3 years may be considered following discussion between the Sponsor and the Investigator. AUC, area under the plasma or serum concentration time curve; BICR, blinded independent central review; DCR, disease control rate; DOR, duration of response; EC, endometrial cancer; IV, administered intravenously; INV, investigator assessment; MMR, mismatch repair; MSI, microsatellite instability; ORR, overall response rate; OS, overall survival; PFS, progression free survival; PRO, patient reported outcome.

ESMO VIRTUAL PLenary
WITH AACR EXPERT COMMENTARY

ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright
and responsibility of the author.
Permission is required for re-use.



Abbreviations: dMMR, mismatch repair deficient; FA, final analysis; H, hypothesis; IA, interim analysis; ITT, intent to treat; MMRp, mismatch repair proficient; MSI-H, microsatellite instability-high; MSS, microsatellite stable; OS, overall survival; PFS, progression-free survival.

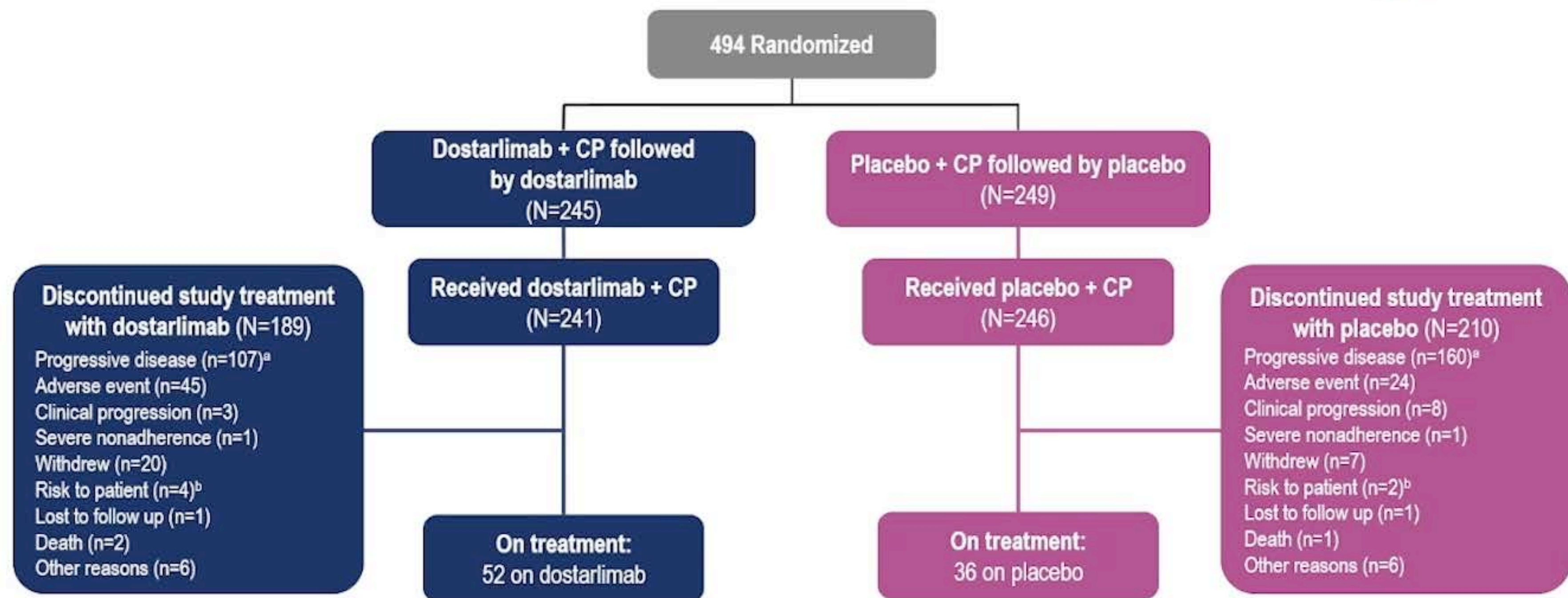
ESMO VIRTUAL PLenary
WITH AACR EXPERT COMMENTARY

ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright
and responsibility of the author.
Permission is required for re-use.



PATIENT DISPOSITION



CP, carboplatin/paclitaxel

WITH AACR EXPERT COMMENTARY

ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright
and responsibility of the author.
Permission is required for re-use.

Dostarlimab in Combination with Chemotherapy for the Treatment of Primary Advanced or Recurrent Endometrial Cancer: a Placebo-Controlled Randomized Phase 3 Trial (ENGOT-EN6-NSGO/GOG-3031/RUBY)



PATIENT POPULATION AND BASELINE CHARACTERISTICS

Variable, n (%)	dMMR/MSI-H		Overall	
	Dostarlimab + CP (N=53)	Placebo + CP (N=65)	Dostarlimab + CP (N=245)	Placebo + CP (N=249)
MMR/MSI status				
dMMR/MSI-H	53 (100)	65 (100)	53 (21.6)	65 (26.1)
MMRp/MSS	—	—	192 (78.4)	184 (73.9)
Prior external pelvic radiation				
Yes	8 (15.1)	13 (20.0)	41 (16.7)	45 (18.1)
No	45 (84.9)	52 (80.0)	204 (83.3)	204 (81.9)
Disease status				
Primary stage III	10 (18.9)	14 (21.5)	45 (18.4)	47 (18.9)
Primary stage IV	16 (30.2)	19 (29.2)	83 (33.9)	83 (33.3)
Recurrent	27 (50.9)	32 (49.2)	117 (47.8)	119 (47.8)

CP, carboplatin/paclitaxel; dMMR, mismatch repair deficient; MMR, mismatch repair; MMRp, mismatch repair proficient; MSI, microsatellite instability; MSI-H, microsatellite instability-high; MSS, microsatellite stable



BASELINE CHARACTERISTICS

	dMMR/MSI-H		Overall	
Variable, n (%)	Dostarlimab + CP (N=53)	Placebo + CP (N=65)	Dostarlimab + CP (N=245)	Placebo + CP (N=249)
Prior Anticancer Treatment				
Yes	7 (13.2)	10 (15.4)	48 (19.6)	52 (20.9)
Carboplatin/ paclitaxel	4 (7.5)	6 (9.2)	36 (14.7)	39 (15.7)
Histology type				
Carcinosarcoma	4 (7.5)	1 (1.5)	25 (10.2)	19 (7.6)
Endometrioid	44 (83.0)	56 (86.2)	134 (54.7)	136 (54.6)
Mixed carcinoma ^b	2 (3.8)	4 (6.2)	10 (4.1)	9 (3.6)
Serous adenocarcinoma	1 (1.9)	1 (1.5)	50 (20.4)	52 (20.9)
Clear cell adenocarcinoma	0	0	8 (3.3)	9 (3.6)
Mucinous adenocarcinoma	0	0	0	1 (0.4)
Undifferentiated carcinoma	0	0	1 (0.4)	2 (0.8)
Other	2 (3.8)	3 (4.6)	17 (6.9)	21 (8.4)

*Other includes patients identifying as American Indian or Alaska native, native Hawaiian or other Pacific Islander, unknown, or not reported. ^bPatients with ECOG score: 52 dostarlimab+CP dMMR/MSI-H, 65 placebo+CP dMMR/MSI-H, 241 dostarlimab+CP overall, 246 placebo+CP overall. ^cMixed carcinoma ≥10% of carcinosarcoma, clear cell, or serous histology. BMI, body mass index; CP, carboplatin/paclitaxel; dMMR, mismatch repair deficient; ECOG, Eastern Cooperative Oncology Group; MSI-H, microsatellite instability-high.

ESMO VIRTUAL PLenary
WITH AACR EXPERT COMMENTARY

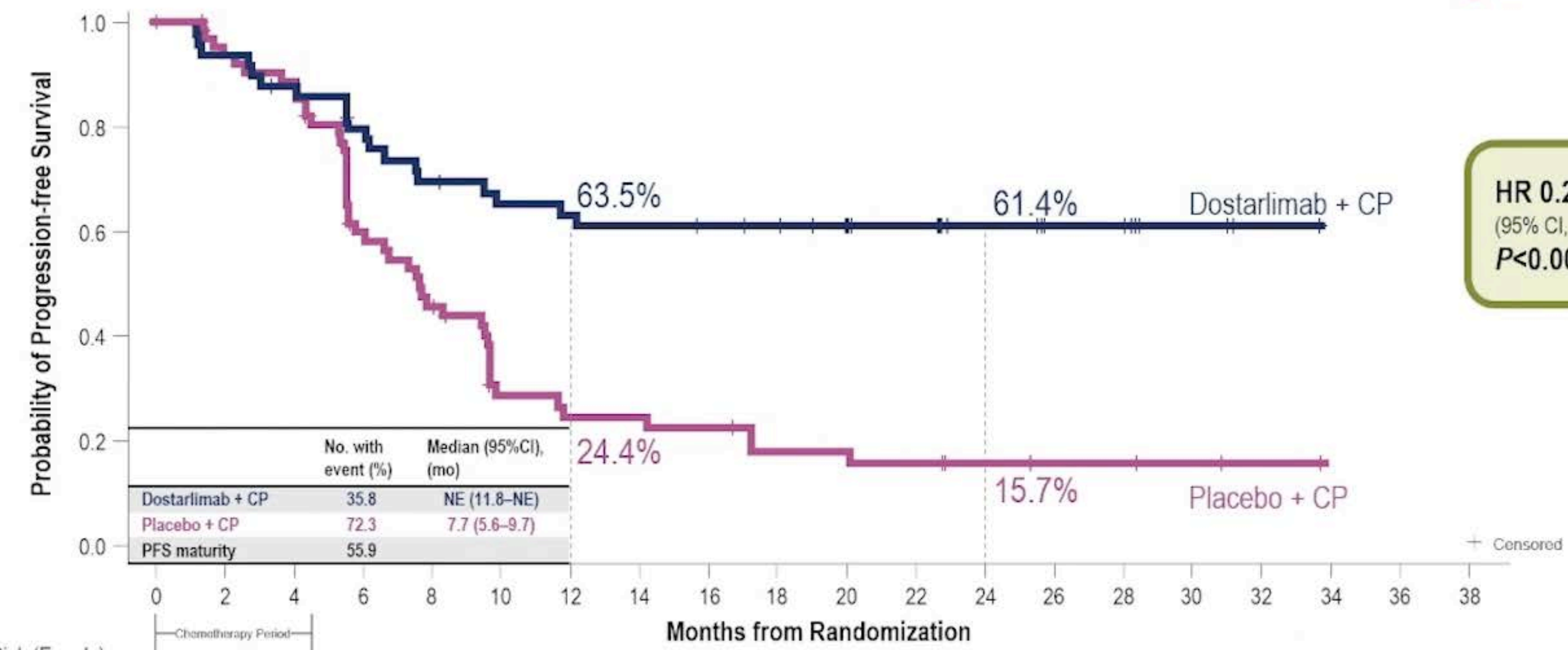
ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright
and responsibility of the author.
Permission is required for re-use.

Dostarlimab in Combination with Chemotherapy for the Treatment of Primary Advanced or Recurrent Endometrial Cancer: a Placebo-Controlled Randomized Phase 3 Trial (ENGOT-EN6-NSGO/GOG-3031/RUBY)



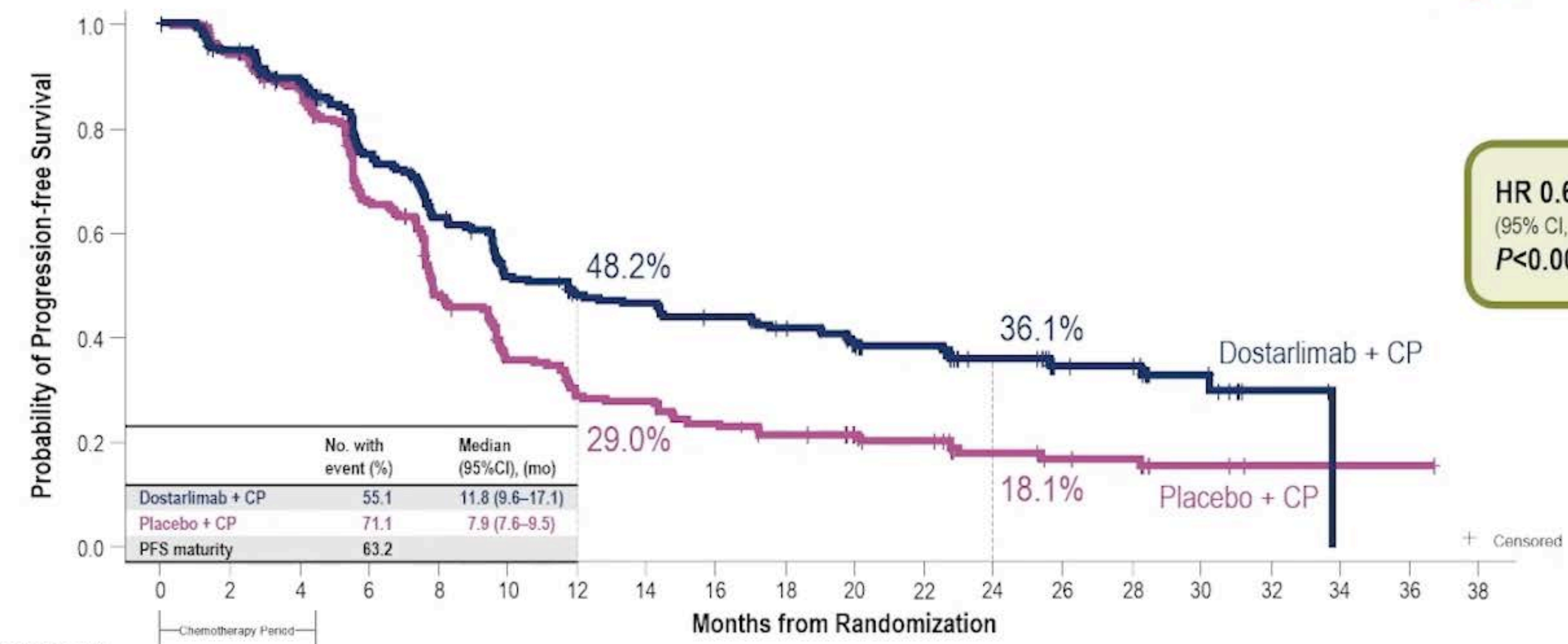
PRIMARY ENDPOINT: PFS IN dMMR/MSI-H POPULATION



*Median duration of follow-up 24.79 months
CP, carboplatin/paclitaxel; dMMR, mismatch repair deficient; HR, hazard ratio; MSI-H, microsatellite instability-high; NE, not estimable; PFS, progression-free survival



PRIMARY ENDPOINT: PFS IN OVERALL POPULATION



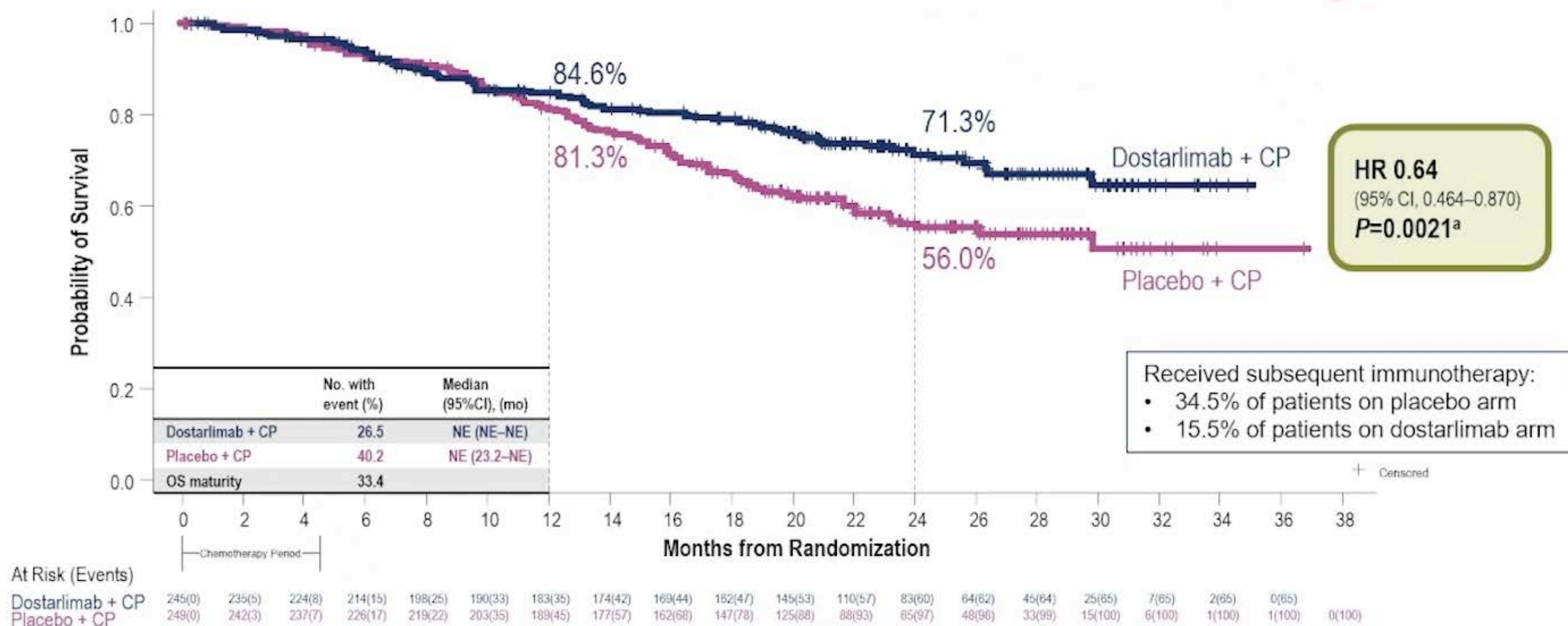
At Risk (Events)

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Dostarlimab + CP	246(0)	220(12)	197(25)	157(55)	130(80)	105(103)	94(110)	90(113)	84(118)	78(122)	66(127)	52(128)	34(131)	23(132)	12(133)	22(132)	2(134)	0(135)	1(177)	0(177)
Placebo + CP	249(0)	219(14)	200(29)	144(77)	103(115)	74(141)	59(155)	57(157)	48(166)	42(170)	39(170)	32(172)	20(175)	14(176)	13(176)	5(177)	2(177)	1(177)	1(177)	0(177)

*Median duration of follow-up 25.38 months.
CP, carboplatin/paclitaxel; HR, hazard ratio; PFS, progression-free survival



PRIMARY ENDPOINT: OS IN OVERALL POPULATION (33% MATURITY)



- Received subsequent immunotherapy:
- 34.5% of patients on placebo arm
- 15.5% of patients on dostarlimab arm

Median duration of follow-up 25.38 months

^a $P \leq 0.00177$ required to declare statistical significance at first interim analysis

CP, carboplatin/paclitaxel; HR, hazard ratio; NE, not estimable; OS, overall survival.

ESMO VIRTUAL PLenary

WITH AACR EXPERT COMMENTARY

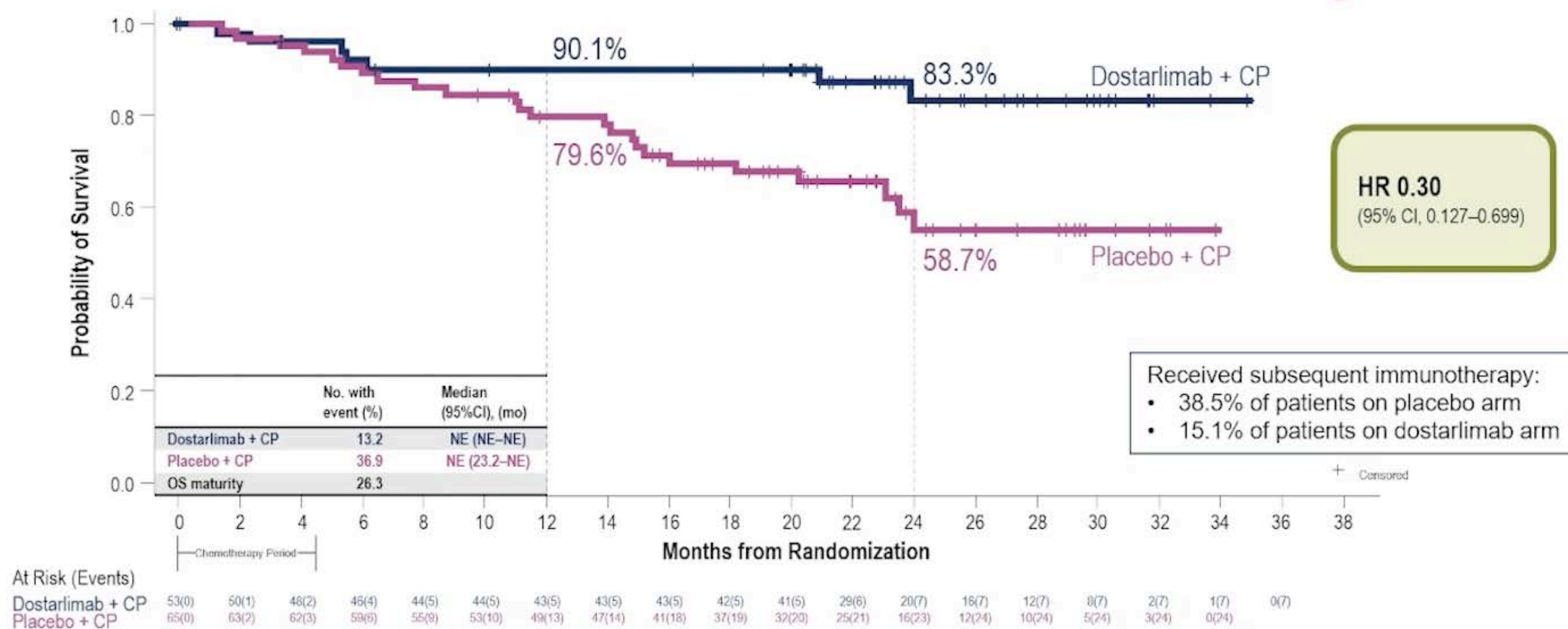
ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright
and responsibility of the author.
Permission is required for re-use.

Dostarlimab in Combination with Chemotherapy for the Treatment of Primary Advanced or Recurrent Endometrial Cancer: a Placebo-Controlled Randomized Phase 3 Trial (ENGOT-EN6-NSGO/GOG-3031/RUBY)



OS IN dMMR/MSI-H POPULATION



CP, carboplatin/paclitaxel; dMMR, mismatch repair deficient; HR, hazard ratio; MSI-H, microsatellite instability-high; NE, not estimable; OS, overall survival.

ESMO VIRTUAL PLenary
WITH AACR EXPERT COMMENTARY

ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright
and responsibility of the author.
Permission is required for re-use.

Dostarlimab in Combination with Chemotherapy for the Treatment of Primary Advanced or Recurrent Endometrial Cancer: a Placebo-Controlled Randomized Phase 3 Trial (ENGOT-EN6-NSGO/GOG-3031/RUBY)



PFS IN MMR_p/MSS POPULATION



CP, carboplatin/paclitaxel; HR, hazard ratio; MMRp, mismatch repair proficient; MSS, microsatellite stable; PFS, progression-free survival.

ESMO VIRTUAL PLenary
WITH AACR EXPERT COMMENTARY

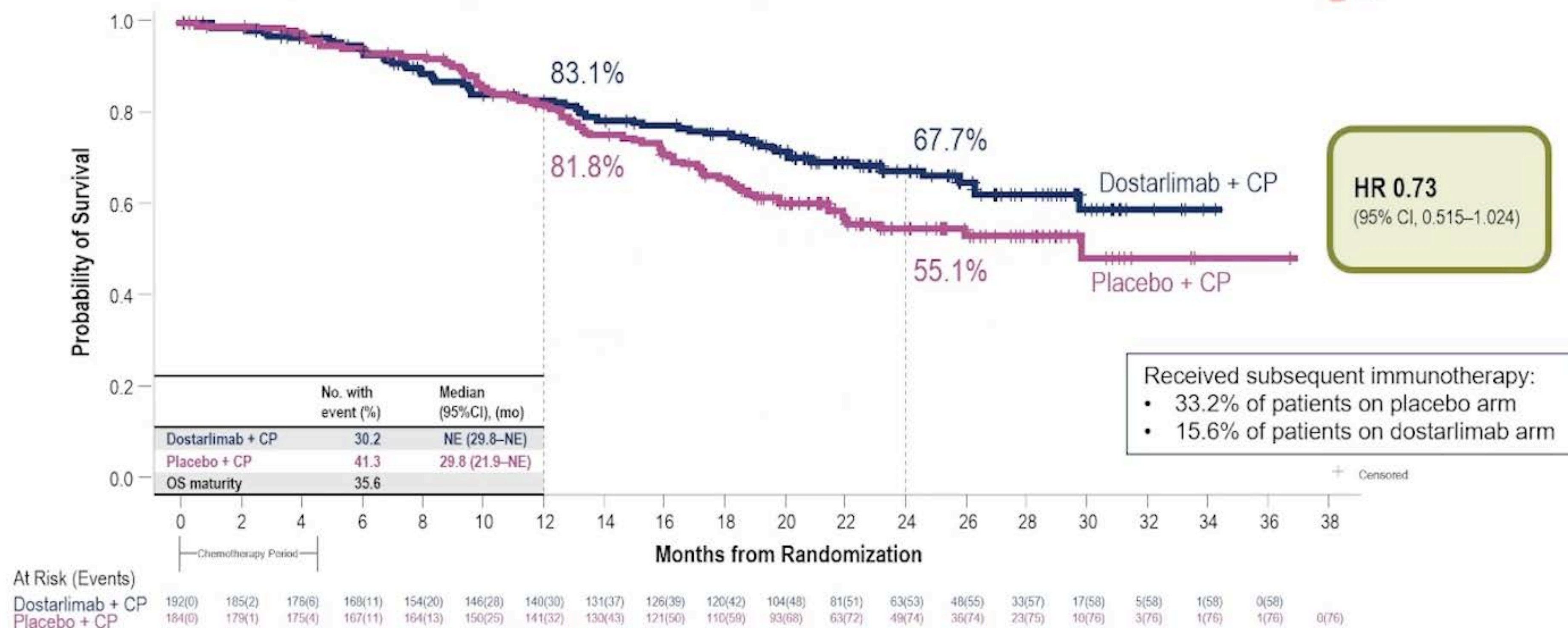
ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright
and responsibility of the author.
Permission is required for re-use.

Dostarlimab in Combination with Chemotherapy for the Treatment of Primary Advanced or Recurrent Endometrial Cancer: a Placebo-Controlled Randomized Phase 3 Trial (ENGOT-EN6-NSGO/GOG-3031/RUBY)



OS IN MMR_p/MSS POPULATION

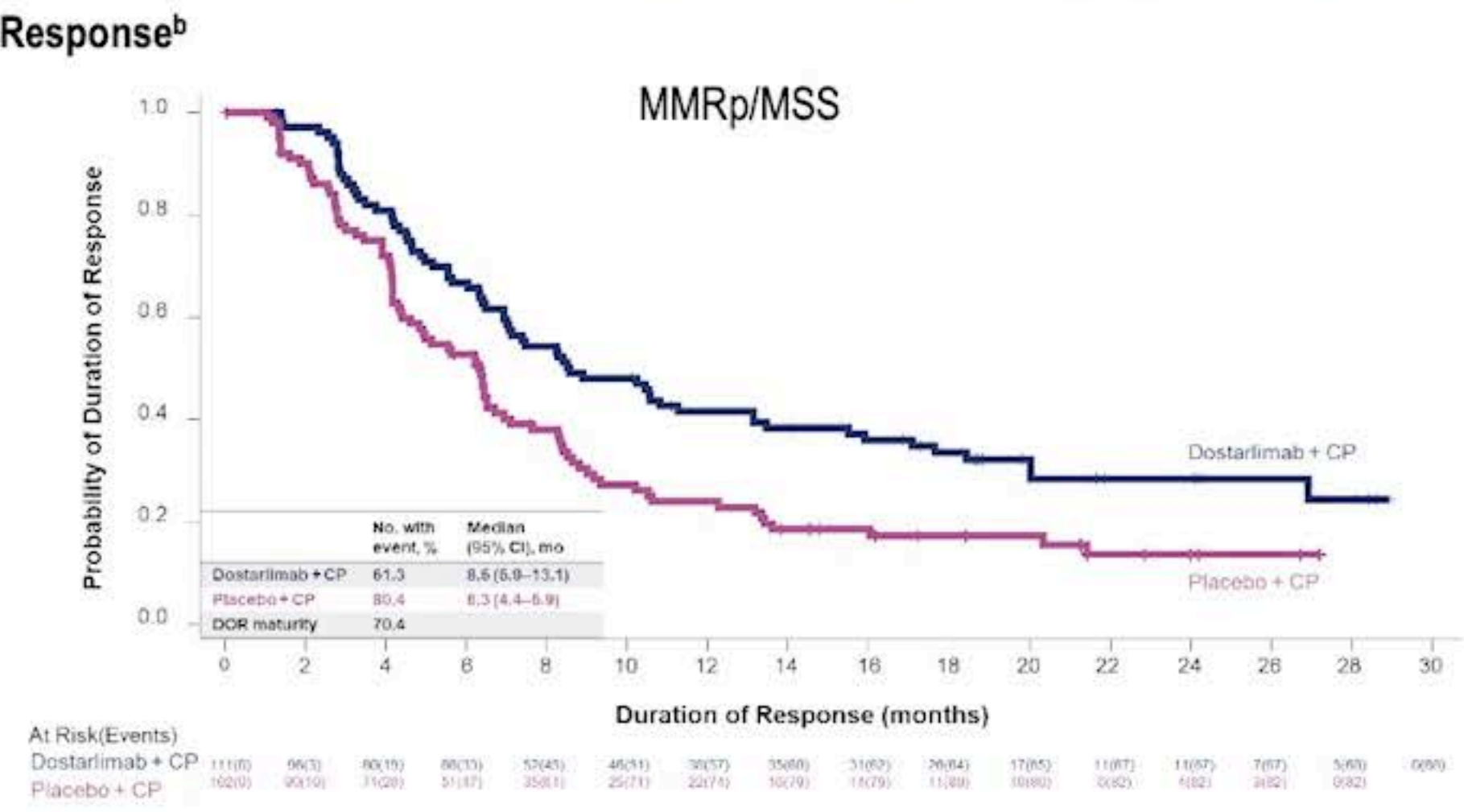
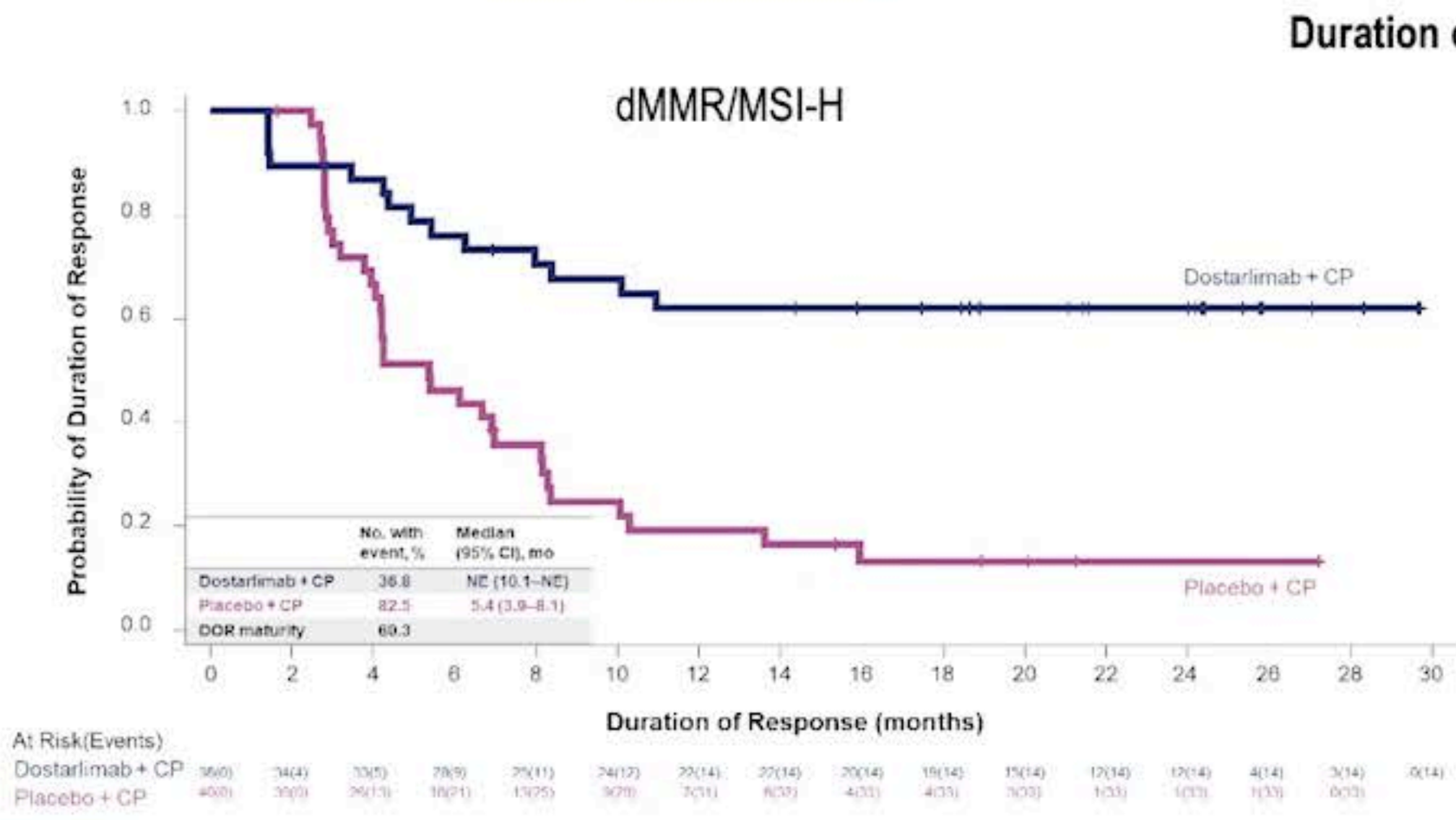


CP, carboplatin/paclitaxel; HR, hazard ratio; MMRp, mismatch repair proficient; MSS, microsatellite stable; NE, not estimable; OS, overall survival.



OBJECTIVE RESPONSE RATE AND DURATION OF RESPONSE

ORR, % ^a (n/N; 95% CI) CR PR	dMMR/MSI-H		ORR, % ^a (n/N; 95% CI) CR PR	MMRp/MSS	
	Dostarlimab + CP (N=53)	Placebo + CP (N=65)		Dostarlimab + CP (N=192)	Placebo + CP (N=184)
	77.6 (38/49; 63.4–88.2) 15 (30.6) 23 (46.9)	69.0 (40/58; 55.5–80.5) 12 (20.7) 28 (48.3)		68.1 (111/163; 60.4–75.2) 38 (23.3) 73 (44.8)	63.4 (102/161; 55.4–70.8) 31 (19.3) 71 (44.1)



^aORR based on patients with evaluable disease at baseline in the dMMR/MSI-H and MMRp/MSS populations were prespecified analyses. ^bDOR in the dMMR/MSI-H population was a prespecified analysis and in the MMRp/MSS population was a post hoc analysis. CP, carboplatin/paclitaxel; CR, complete response; dMMR, mismatch repair deficient; DOR, duration of response; MMRp, mismatch repair proficient; MSI-H, microsatellite instability-high; MSS, microsatellite stable; ORR, objective response rate; PR, partial response.

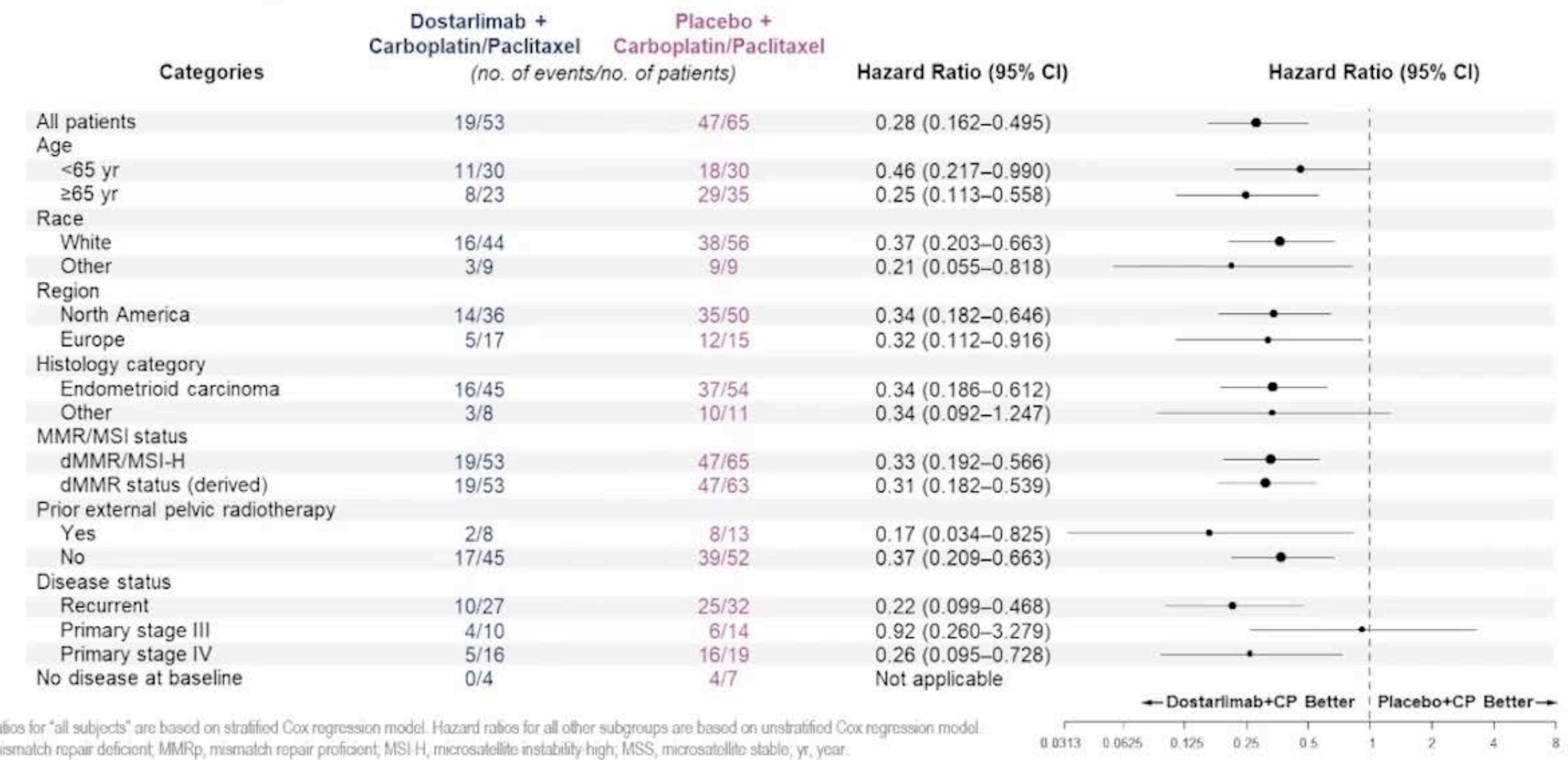
ESMO VIRTUAL
PLenary



Mansoor R. Mirza



SUBGROUP ANALYSIS OF PROGRESSION-FREE SURVIVAL IN dMMR/MSI-H POPULATION





SUBGROUP ANALYSIS OF PROGRESSION-FREE SURVIVAL IN OVERALL POPULATION

Categories	Dostarlimab + Carboplatin/Paclitaxel (no. of events/no. of patients)	Placebo + Carboplatin/Paclitaxel (no. of events/no. of patients)	Hazard Ratio (95% CI)	Hazard Ratio (95% CI)
All patients	135/245	177/249	0.64 (0.507–0.800)	
Age				
<65 yr	69/127	72/114	0.78 (0.559–1.083)	
≥65 yr	66/118	105/135	0.51 (0.376–0.704)	
Race				
White	101/189	135/191	0.62 (0.481–0.808)	
Other	34/56	42/58	0.67 (0.422–1.050)	
Region				
North America	91/171	133/187	0.55 (0.419–0.718)	
Europe	44/74	44/62	0.91 (0.602–1.390)	
Histology category				
Endometrioid carcinoma	64/130	89/136	0.65 (0.473–0.902)	
Other	71/115	88/113	0.60 (0.439–0.823)	
MMR/MSI status				
dMMR/MSI-H	19/53	47/65	0.33 (0.192–0.566)	
MMRp/MSS	116/192	130/184	0.76 (0.595–0.982)	
dMMR status (derived)	19/53	47/63	0.31 (0.182–0.539)	
Prior external pelvic radiotherapy				
Yes	21/41	31/45	0.54 (0.303–0.956)	
No	114/204	146/204	0.65 (0.508–0.831)	
Disease status				
Recurrent	68/117	89/119	0.56 (0.408–0.775)	
Primary stage III	21/45	21/47	1.03 (0.563–1.891)	
Primary stage IV	46/83	67/83	0.57 (0.392–0.836)	
No disease at baseline	12/33	12/30	1.16 (0.520–2.590)	

Hazard ratios for "all subjects" are based on stratified Cox regression model. Hazard ratios for all other subgroups are based on unstratified Cox regression model.
 MMRp, mismatch repair proficient; MSI-H, microsatellite instability high; MSS, microsatellite stable; yr, year.

Hazard ratios for "all subjects" are based on stratified Cox regression model. Hazard ratios for all other subgroups are based on unstratified Cox regression model. dMMR, mismatch repair deficient; MMRp, mismatch repair proficient; MSI-H, microsatellite instability high; MSS, microsatellite stable; yr, year.

ESMO VIRTUAL PLenary
WITH AACR EXPERT COMMENTARY

ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright
and responsibility of the author.
Permission is required for re-use.

Dostarlimab in Combination with Chemotherapy for the Treatment of Primary Advanced or Recurrent Endometrial Cancer: a Placebo-Controlled Randomized Phase 3 Trial (ENGOT-EN6-NSGO/GOG-3031/RUBY)



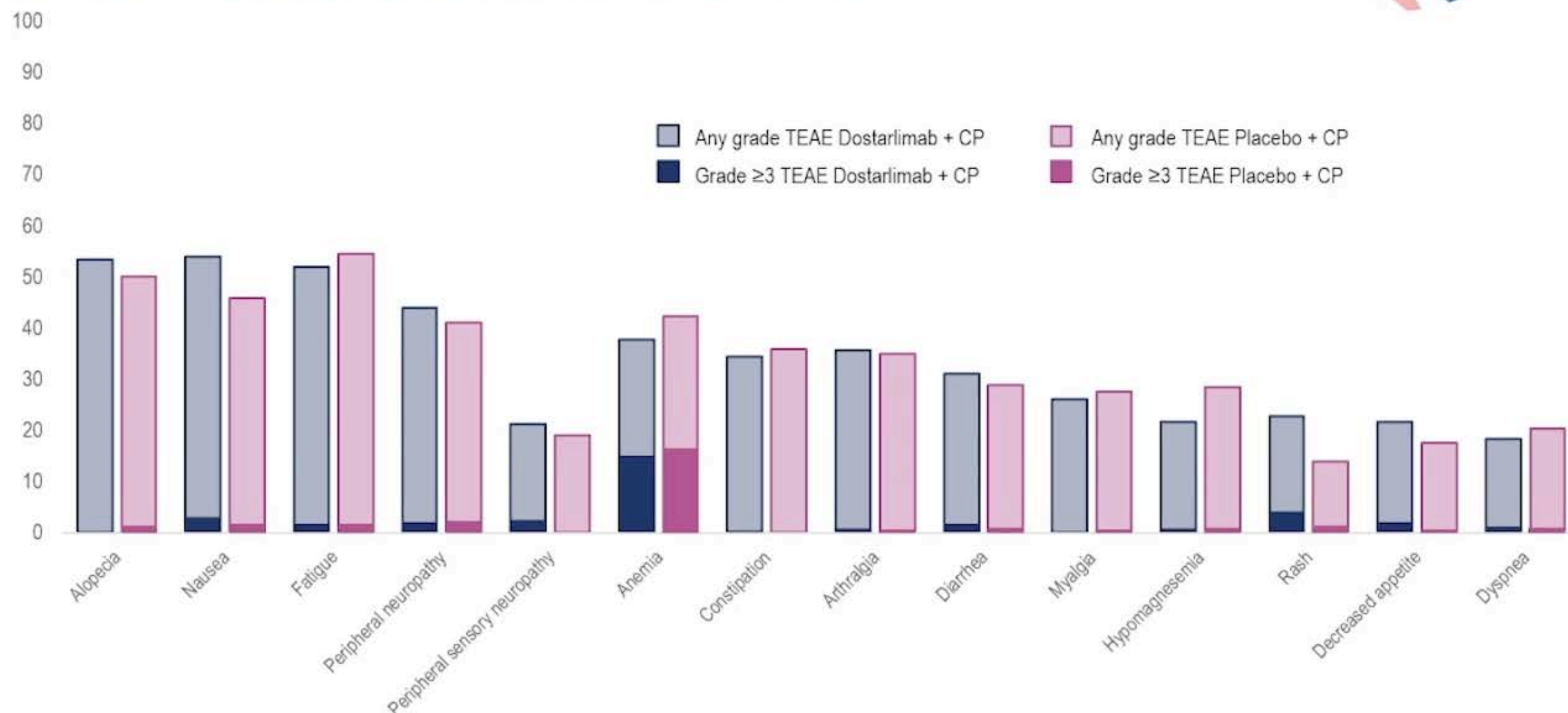
SAFETY SUMMARY

Parameter, n (%)	Dostarlimab + CP (N=241)	Placebo + CP (N=246)
Any TEAE	241 (100)	246 (100)
Any grade ≥ 3 TEAE	170 (70.5)	147 (59.8)
Serious TEAE	91 (37.8)	68 (27.6)
Any treatment-related irAE	92 (38.2)	38 (15.4)
Any TEAE leading to discontinuation of dostarlimab or placebo	42 (17.4)	23 (9.3)
Any TEAE leading to discontinuation of carboplatin	24 (10.0)	19 (7.7)
Any TEAE leading to discontinuation of paclitaxel	24 (10.0)	23 (9.3)
Any TEAE leading to death	5 (2.1) ^a	0
Any TEAE related to dostarlimab leading to death	2 (0.8) ^b	—
Median duration of overall treatment, (range) weeks	43.0 (3.0–150.9)	36.0 (2.1–165.1)

^a3 deaths were not related to study treatment (opioid overdose, COVID-19, and general physical health deterioration). ^bOne death was considered by the investigator as related to dostarlimab plus CP and occurred during the first 6 cycles (myelosuppression); one death was related to dostarlimab and occurred during the 90-day safety follow-up (hypovolemic shock).
CP, carboplatin/paclitaxel; irAE, immune-related adverse event; TEAE, treatment emergent adverse event.



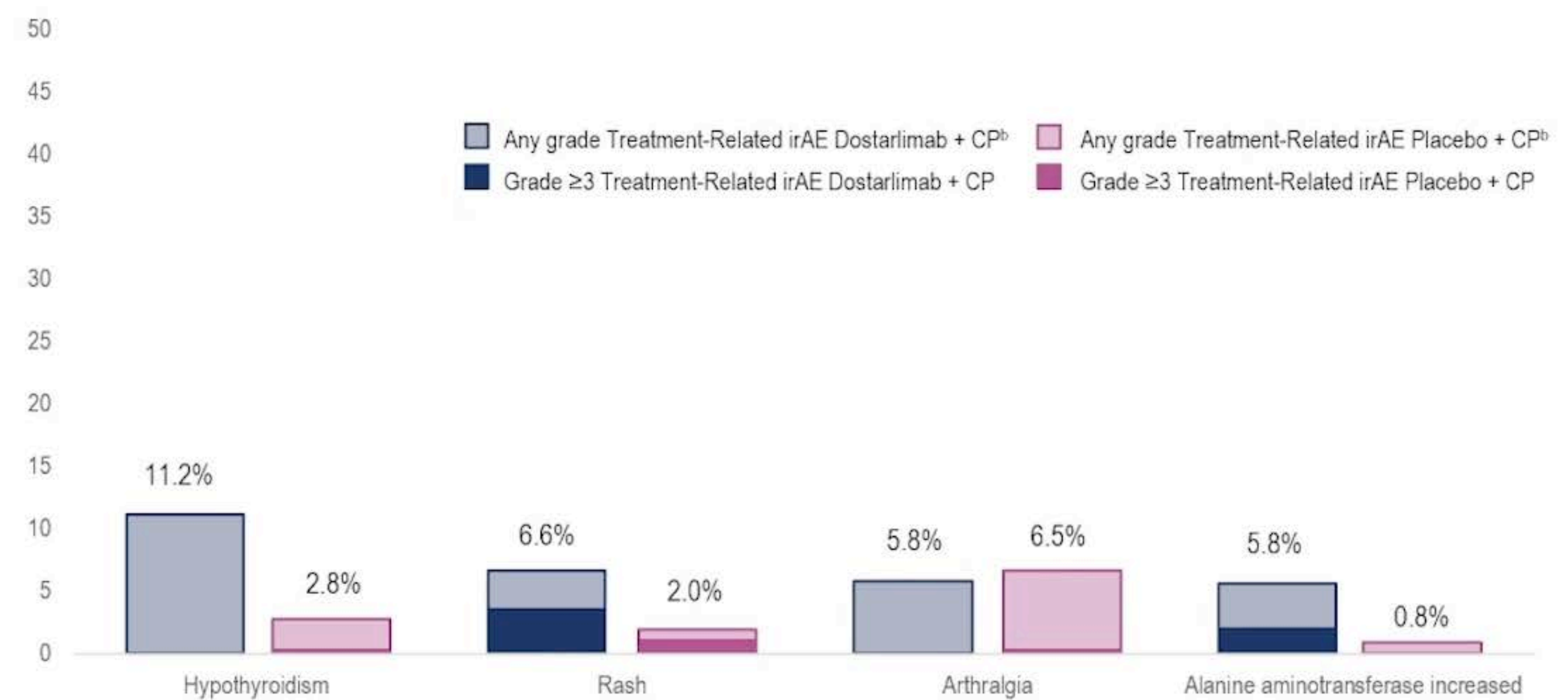
TEAEs IN $\geq 20\%$ OF EITHER ARM



CP, carboplatin/paclitaxel; TEAE, treatment emergent adverse event.



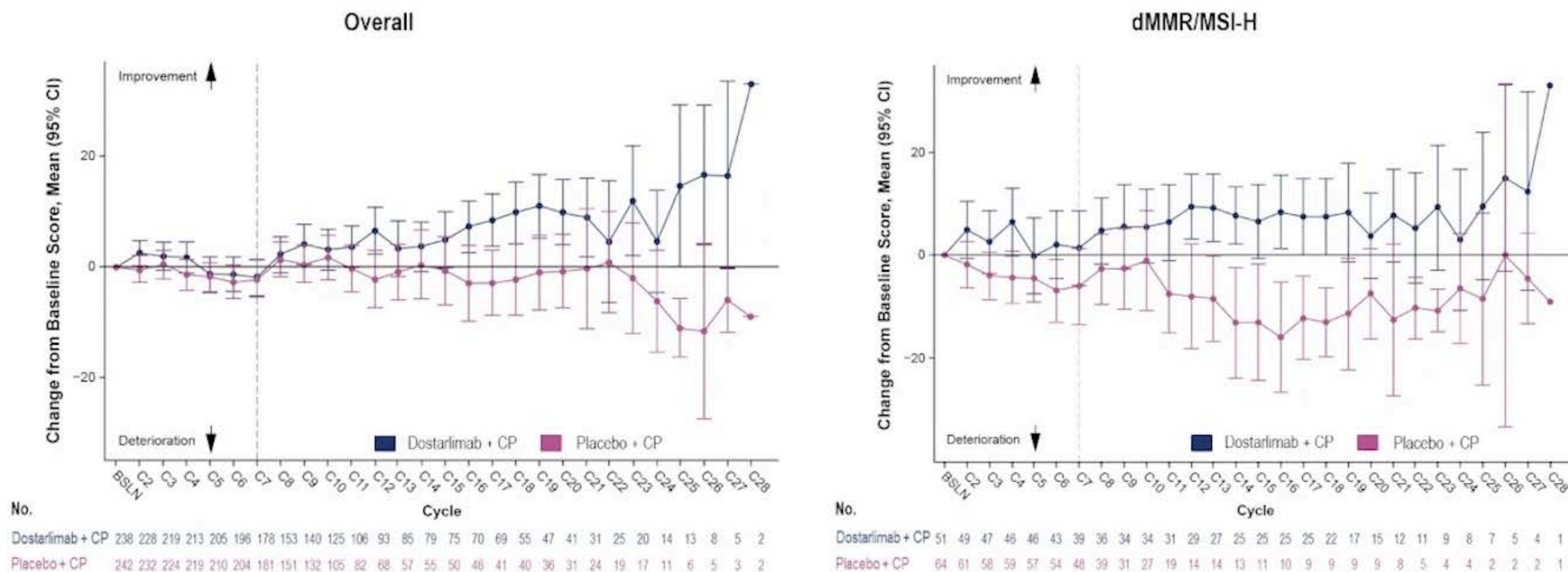
TREATMENT-RELATED irAEs IN ≥5% OF EITHER ARM^a



^aAll other irAEs that occurred did so at a frequency below 5% in either arm. ^bImmune-related AEs are defined as grade 2 and above from a predefined list. AE, adverse event; ir, immune related.



EORTC QLQ-C30 Global Quality of Life Score



BSLN, baseline; C, cycle; EORTC-QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire-Core 30.



CONCLUSIONS

- Dostarlimab + CP demonstrated statistically significant and clinically meaningful PFS benefit with an early OS trend
 - Substantial, unprecedented benefit in dMMR/MSI-H patients
 - Clinically meaningful long-term benefit observed in MMRp/MSS patients
- Safety profile for dostarlimab + CP was manageable and generally consistent with that of the individual drugs
- **Dostarlimab plus carboplatin/paclitaxel represents a new standard of care for patients with primary advanced or recurrent endometrial cancer**

CP, carboplatin/paclitaxel; dMMR, mismatch repair deficient; MMRp, mismatch repair proficient; MSI-H, microsatellite instability-high; MSS, microsatellite stable; OS, overall survival; PFS, progression-free survival.

ESMO VIRTUAL PLenary

WITH AACR EXPERT COMMENTARY

ENGOT-EN6-NSGO/GOG-3031/RUBY presented by Mansoor R Mirza

Content of this presentation is copyright
and responsibility of the author.
Permission is required for re-use.



The NEW ENGLAND
JOURNAL of MEDICINE

ORIGINAL ARTICLE

Dostarlimab for Primary Advanced or Recurrent Endometrial Cancer

Mansoor R. Mirza, M.D., Dana M. Chase, M.D., Brian M. Slomovitz, M.D., René dePont Christensen, Ph.D., Zoltán Novák, Ph.D., Destin Black, M.D., Lucy Gilbert, M.D., Sudarshan Sharma, M.D., Giorgio Valabrega, M.D., Lisa M. Landrum, M.D., Ph.D., Lars C. Hanker, M.D., Ashley Stuckey, M.D., Ingrid Boere, M.D., Ph.D., Michael A. Gold, M.D., Annika Auranen, M.D., Bhavana Pothuri, M.D., David Cibula, M.D., Carolyn McCourt, M.D., Francesco Raspagliesi, M.D., Mark S. Shahin, M.D., Sarah E. Gill, M.D., Bradley J. Monk, M.D., Joseph Buscema, M.D., Thomas J. Herzog, M.D., Larry J. Copeland, M.D., Min Tian, Ph.D., Zangdong He, Ph.D., Shadi Stevens, M.D., Eleftherios Zografos, M.D., Robert L. Coleman, M.D., and Matthew A. Powell, M.D., for the RUBY investigators