



STANDARD TREATMENTS AND NEW DIRECTIONS IN GYNAECOLOGICAL CANCERS

MILANO June 26th-28th, 2025

Responsabili Scientifici:

NICOLETTA COLOMBO, FRANCESCO RASPAGLIESI

GSK SPONSORED SYMPOSIUM The new therapeutic algorithm for Endometrial Cancer

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Direttore UOC Ginecologia Oncologia Medica IEO

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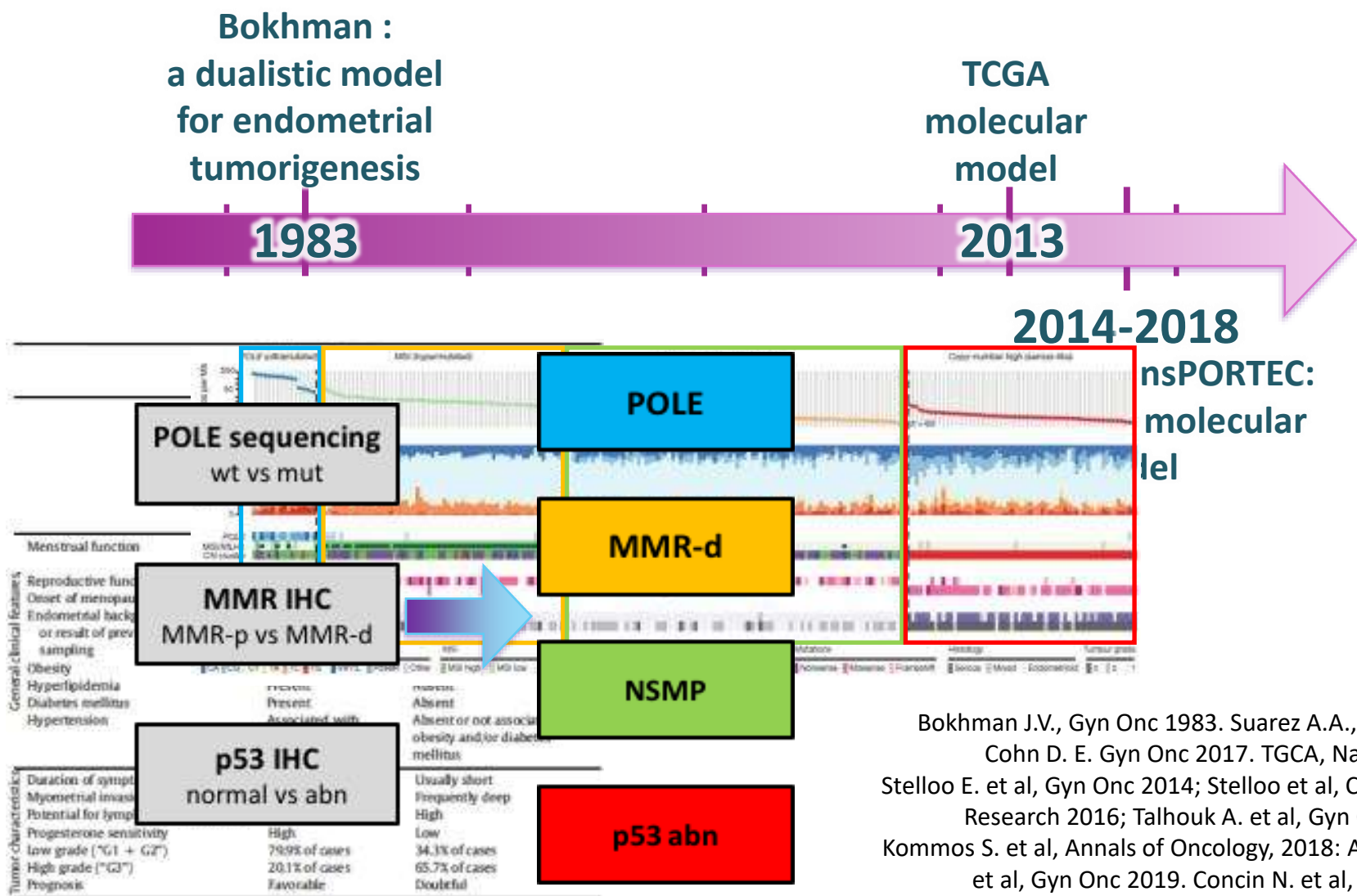


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- Promotional Speaker: AstraZeneca, Tesaro, Novartis, Clovis, MSD, GlaxoSmithKline, Eisai
- Investigator/Researcher: AstraZeneca, PharmaMar, Roche
- Nonfinancial interests: Steering Committee Member for ESMO Clinical Guidelines, Chair Scientific Committee ACTO onlus
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- Negli ultimi 12 mesi ho svolto altri incarichi promozionali/non-promozionali per conto del Gruppo GlaxoSmithKline.

Endometrial cancer is not one disease!!!



Bokhman J.V., Gyn Onc 1983. Suarez A.A., Felix A.S., Cohn D. E. Gyn Onc 2017. TCGA, Nature 2013. Stelloo E. et al, Gyn Onc 2014; Stelloo et al, Clin Cancer Research 2016; Talhouk A. et al, Gyn Onc 2016; Kommos S. et al, Annals of Oncology, 2018; Abdulfatah et al, Gyn Onc 2019. Concin N. et al, IJGC 2021

31 Members of multidisciplinary European Working Group

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Project Chairs



ESGO
European Society of
Gynaecological Oncology

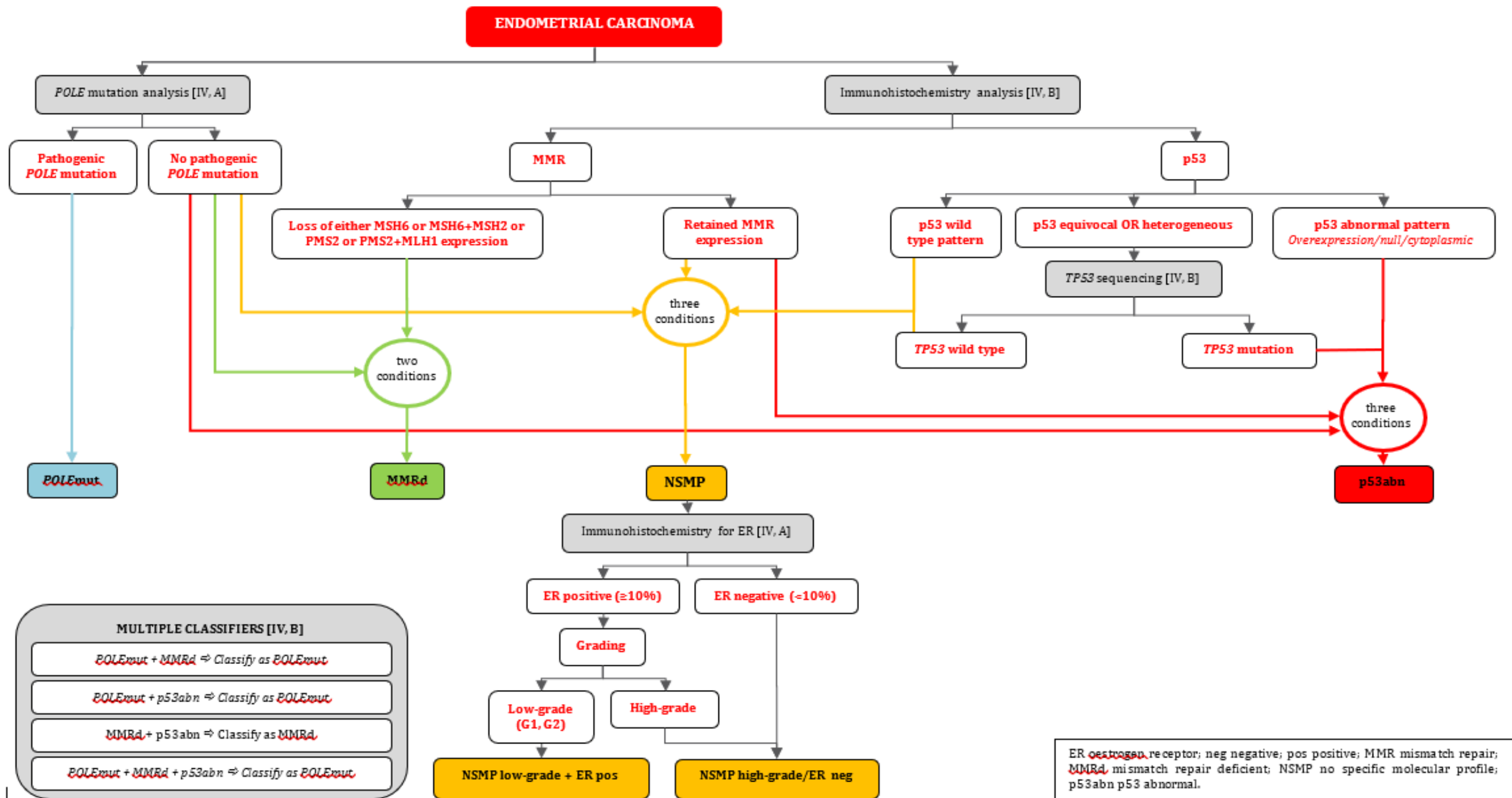


ESOP
European
Society of
Pathology



ESTRO
European Society for
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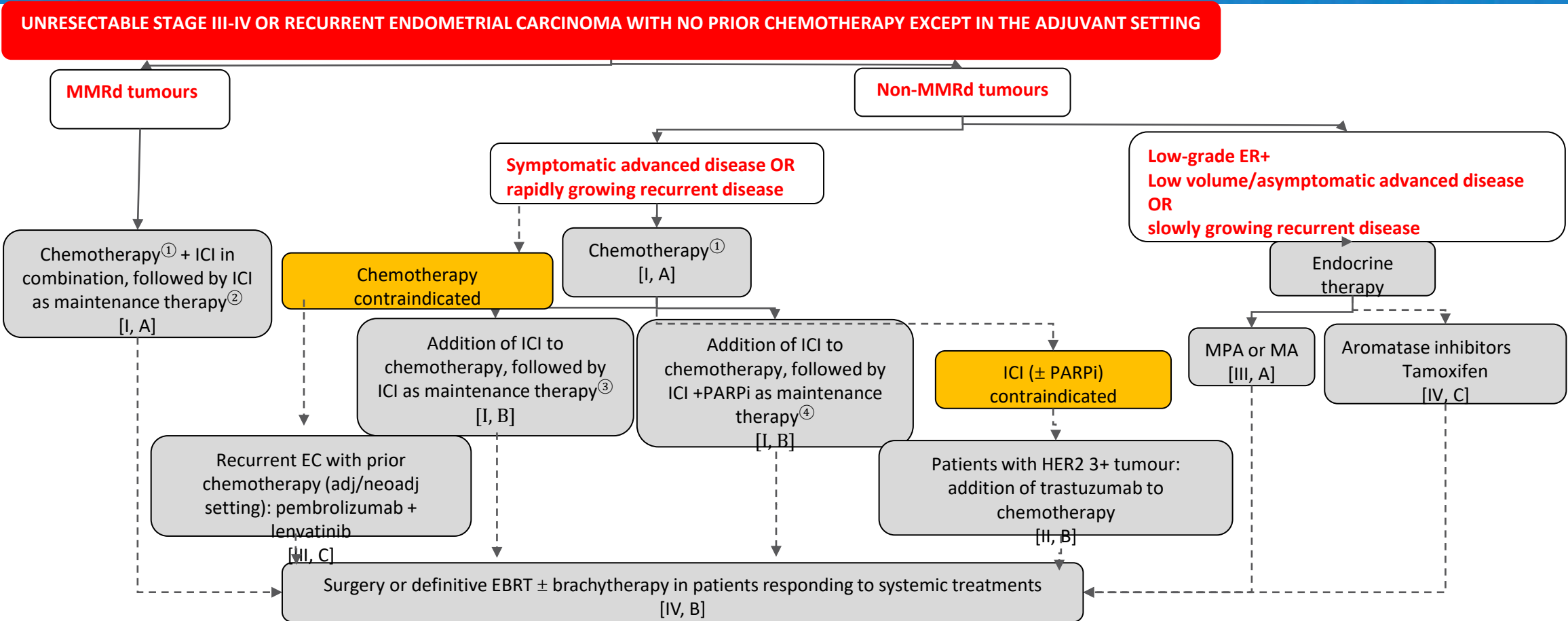
Systemic Therapy For Advanced and Recurrent Disease

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The European Voice of Gynaecological Oncology



First line systemic therapy in unresectable stage III-IV or recurrent endometrial carcinoma with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)



① The standard chemotherapy regimen is carboplatin + paclitaxel.
② Immune checkpoint inhibitor (ICI): dostarlimab or durvalumab or pembrolizumab (drugs in alphabetical order).
③ ICI: dostarlimab or pembrolizumab.
④ ICI + poly(ADP-ribose) polymerase inhibitor (PARPi): durvalumab + olaparib.
Adj/neoadj adjuvant/neoadjuvant; EBRT external beam radiotherapy; ER+ estrogen receptor positive; MA megestrol acetate; MMRd mismatch repair deficiency, MPA medroxyprogesterone acetate; non-MMRd non-mismatch repair deficiency; NSMP non-specific molecular profile.

Endocrine Therapy of Endometrial Cancer

Drug	Reference	Number Patients	Median OR (%)	PFS	OS
Progestin	Piver (1980), Podratz (1984), Thigpen (1999)	568 (114-155)	24 (16-37)	3	11
Tamoxifen	ORR: 9-25% PFS: 1-12 months OS: 6-16 months	179 (17-68)	23 (17-68)	2-12	6-16
Other SERM/ SERD		117 (29-53)	16 (10-31)	2-4	13
Aromatase inhibitor		106 (23-51)	9 (9-10)	1-3	6-11
Progestin + Tamoxifen		245 (42-89)	30 (19-37)	3-12	9-16
Endocrine plus mTORi		56 (21-35)	25 (14-32)	3-4	10-14
Endocrine plus Cdk4/6i	Mirza (2020)	77	64 DCR	8	-

Modified from Willem Jan Van Weelden, et al., Front. Oncol., 2019, and Gaducci and Cosio, Cancers 2021

The effect of progestin therapy in advanced and recurrent endometrial cancer: A systematic review and meta-analysis

Willem Jan van Weelden¹ | Philine B. Birkendahl¹ | Roy I. Lalisang^{2,3} |
Joanna IntHout⁴ | Roy F. P. M. Kruitwagen^{3,5} | Andrea Romano³ |
Johanna M. A. Pijnenborg¹

- Twenty- six studies (1639 patients)
- ORR of progestin therapy was 30% (95% CI 25– 36)
- The clinical benefit rate was 52% (95% CI 42– 61)
- In PR- positive EC, the ORR was 55%, compared with 12% in PR- negative disease (risk difference 43%, 95% CI 15– 71).
- Severe toxicity occurred in 6.5%.

SYSTEMIC THERAPY

FIRST LINE SYSTEMIC THERAPY

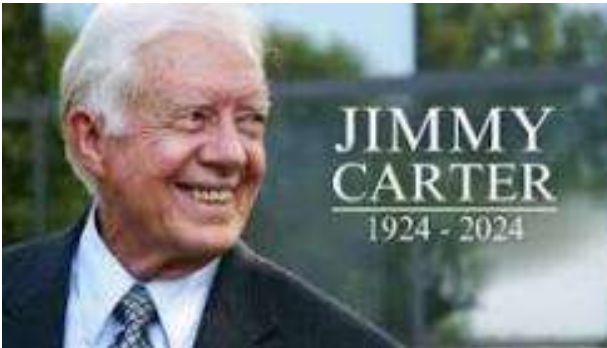
in unresectable stage III/IV or recurrent EC with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)

- The MMR status should be taken into consideration to determine the choice of first line therapy:
 - Patients with MMRd tumours should be offered an ICI e.g. dostarlimab or durvalumab or pembrolizumab (drugs mentioned in alphabetical order) in combination with carboplatin-paclitaxel chemotherapy followed by ICI as maintenance therapy [I, A].

The immunotherapy «Miracle»



Bob Marley died at the age of 36, **in 1981**, of lung and brain metastases from melanoma



Jimmy Carter was diagnosed with melanoma, with liver and brain metastases **in 2015**, at the age 90. He received immunotherapy and died 10 years later at age 100

ENDOMETRIAL CANCER: A CINDERELLA STORY

Once upon a time...



Carboplatin
and **paclitaxel**

Hormone therapy

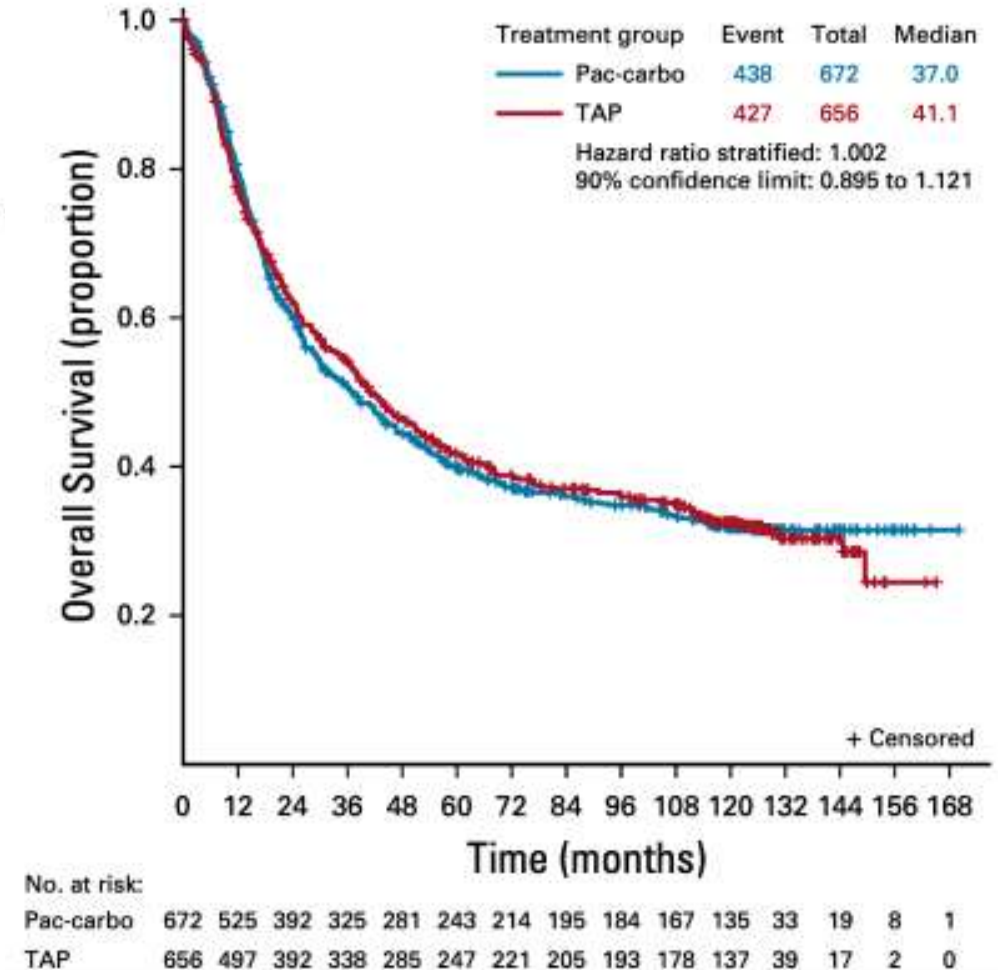


Carboplatin and Paclitaxel for Advanced Endometrial Cancer: Final Overall Survival and Adverse Event Analysis of a Phase III Trial (NRG Oncology/GOG0209)

David S. Miller, MD¹; Virginia L. Filiaci, PhD²; Robert S. Mannel, MD³; David E. Cohn, MD⁴; Takashi Matsumoto, MD⁵; Krishnansu S. Tewari, MD⁶; Paul DiSilvestro, MD⁷; Michael L. Pearl, MD⁸; Peter A. Argenta, MD⁹; Matthew A. Powell, MD¹⁰; Susan L. Zweig, MD¹¹; David P. Warshal, MD¹²; Parviz Hanjani, MD¹³; Michael E. Carney, MD¹⁴; Helen Huang, MS²; David Cella, PhD¹⁵; Richard Zaino, MD¹⁶; and Gini F. Fleming, MD¹⁷

- **For decades**, the standard 1L therapy for advanced or recurrent EC has been carboplatin and paclitaxel with **LIMITED EFFICACY (5-year OS: 15-20%)**.
- The GOG-209 study was a non-inferiority study. First presented in 2012 and then published in 2020.

2020

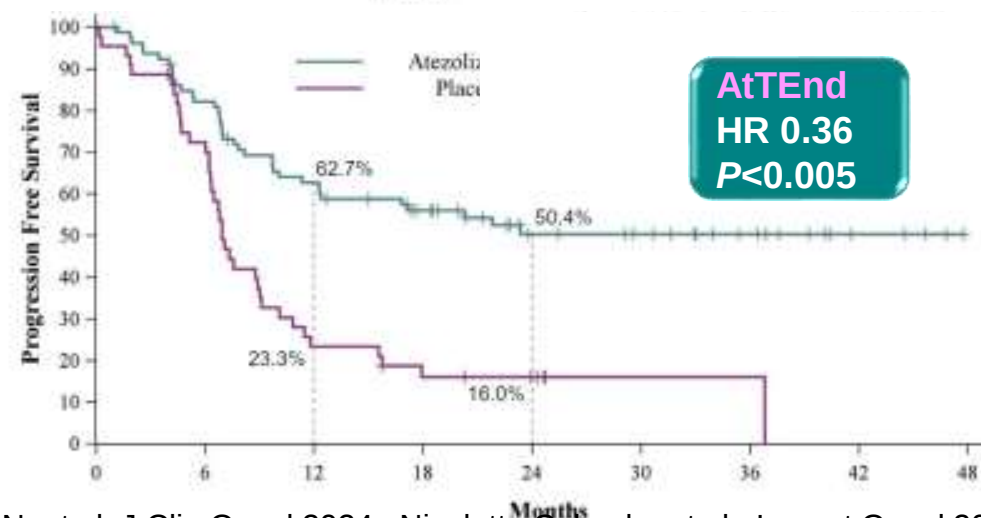
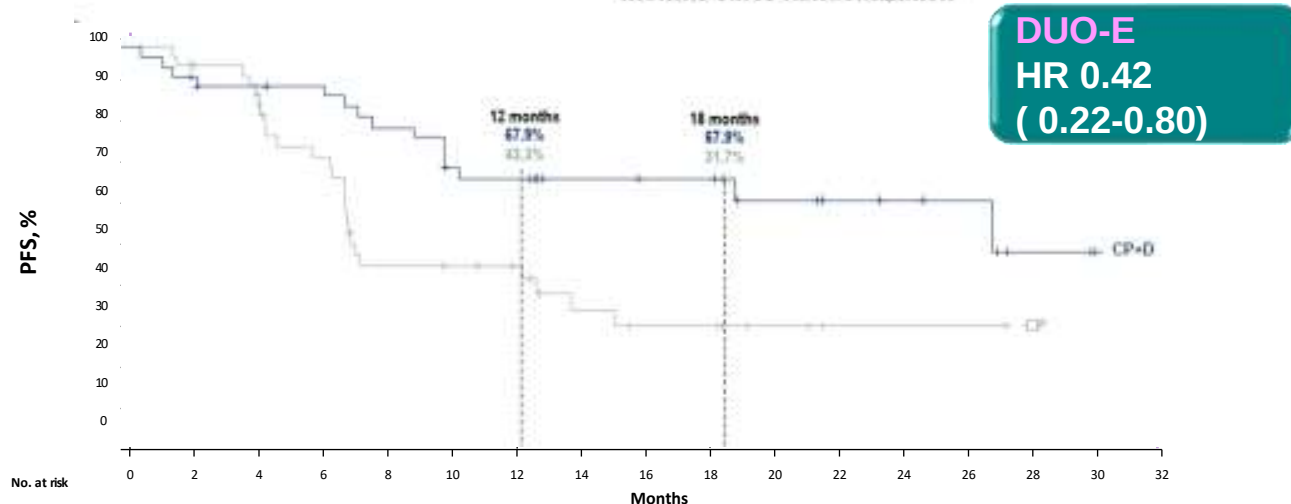
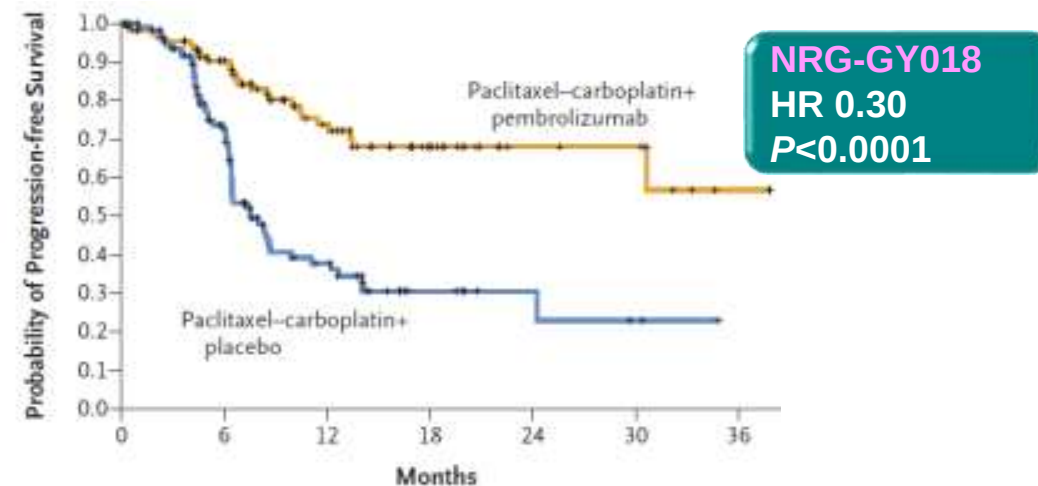
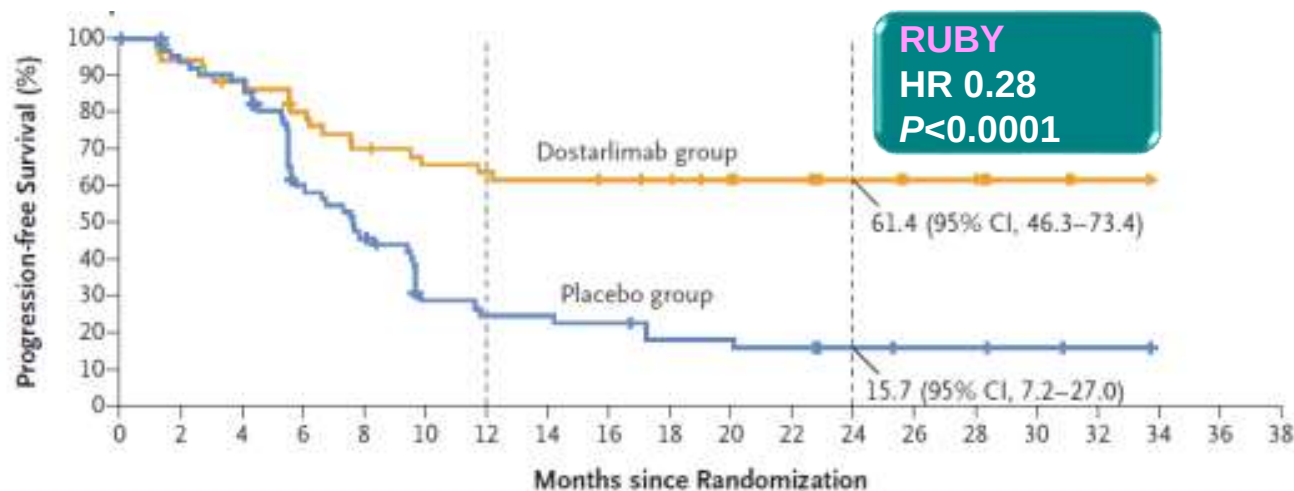


Endometrial Cancer: A Cinderella Story

First-line Treatment

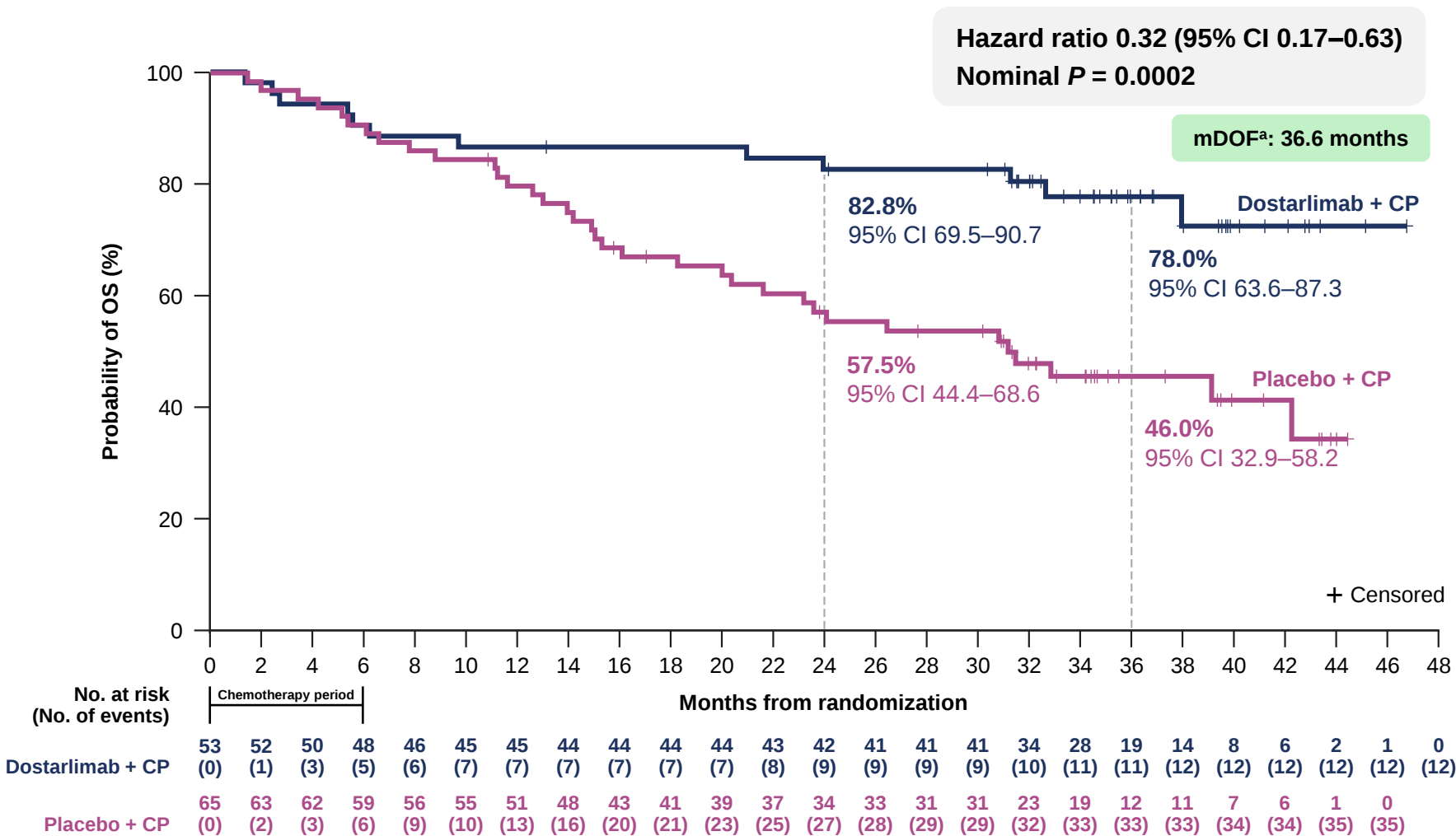


Immune Checkpoint Inhibitor plus Chemotherapy in First-line Endometrial Cancer: PFS in dMMR Tumors



Mansoor R. Mirza et al. NEJM August 2023, Ramez N. Eskander et al. NEJM August 2023, Westin SN, et al. J Clin Oncol 2024, Nicoletta Colombo et al., Lancet Oncol 2024

OS (dMMR/MSI-H population) – prespecified exploratory subgroup analysis^{1,2}



	No. with event, %	Median (95% CI), mo
Dostarlimab + CP	22.6	NE (NE–NE)
Placebo + CP	53.8	31.4 (20.3–NE)
OS maturity, %	40	

%, (n/N)	Dostarlimab + CP	Placebo + CP
Received any FUACT	28.3 (15/53)	60.0 (39/65)
Received subsequent IO	15.1 (8/53)	41.5 (27/65)
Proportion of FUACT that was IO	53.3 (8/15)	69.2 (27/39)

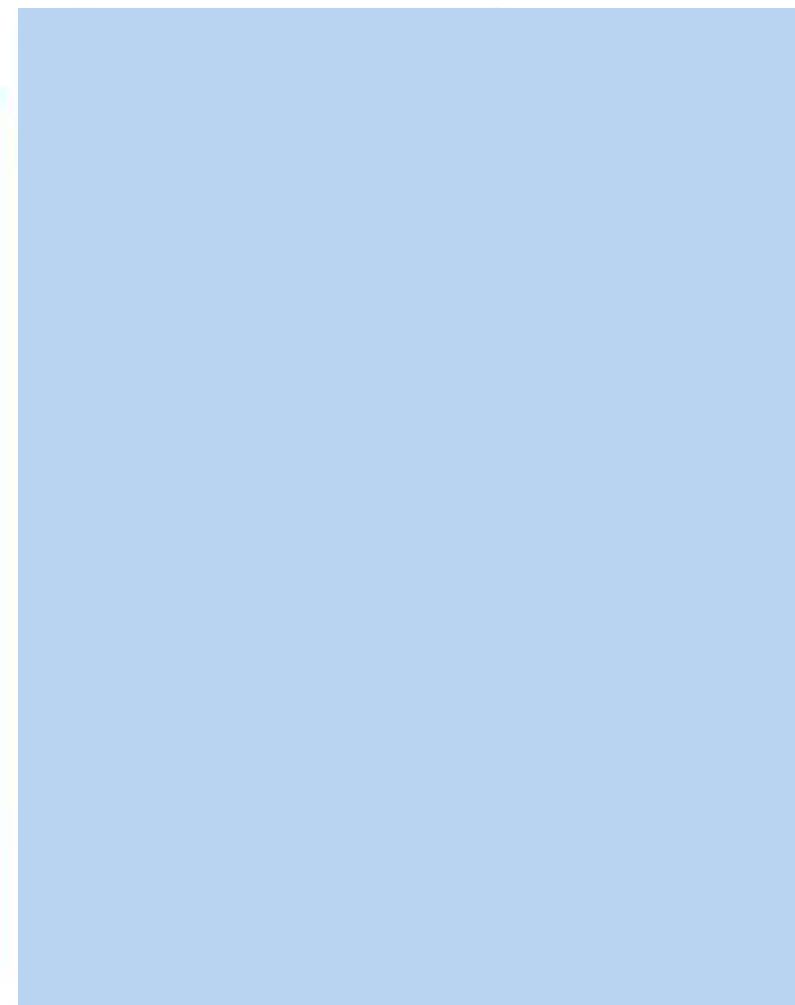
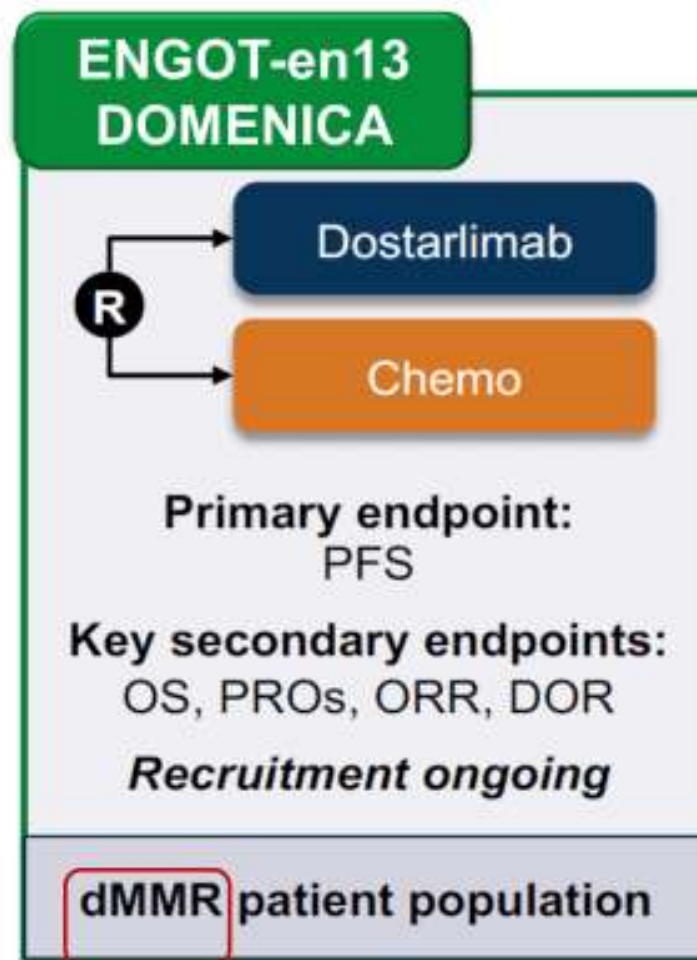
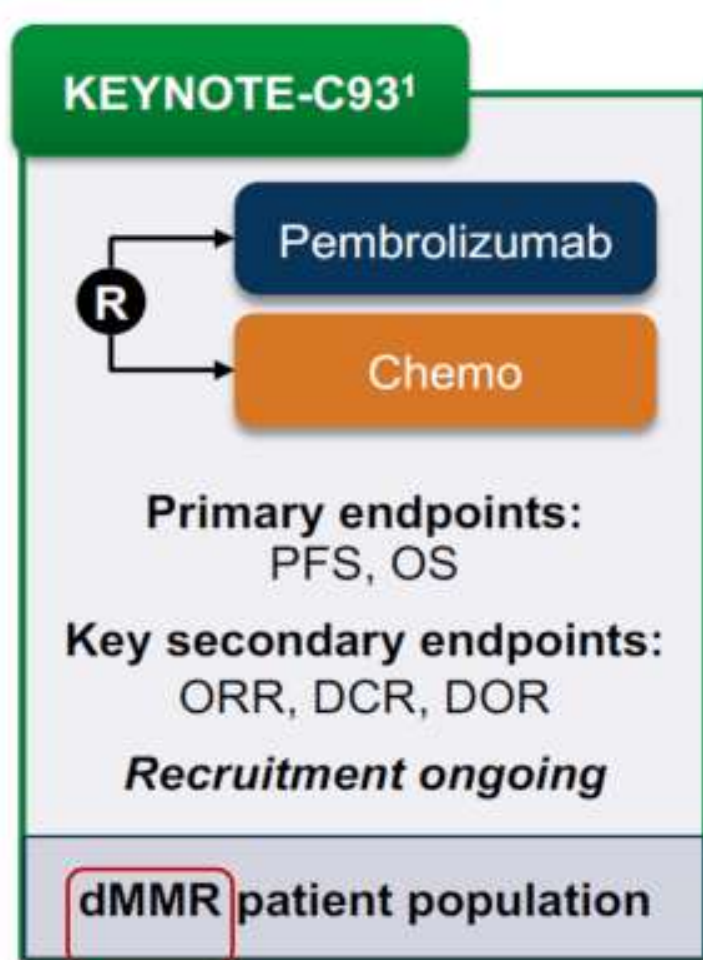
^amDOF, median duration of follow-up, is defined as time in months from randomization to data cutoff date; expected mDOF: 31.0–48.7 months. CI = confidence interval; CP = carboplatin-paclitaxel; dMMR = mismatch repair deficient; FUACT = follow-up anticancer therapy; IA1 = interim analysis 1; IO = immunotherapy; mOS = median overall survival; MSI-H = microsatellite instability-high; MSS = microsatellite stable; MMRp = mismatch repair proficient; mo = months; NE = not estimable; No. = number; OS = overall survival.

1. Used with permission of The Authors, from Overall survival in patients with endometrial cancer treated with dostarlimab plus carboplatin-paclitaxel in the randomized ENGOT-EN6/GOG-3031/RUBY trial, Powell MA, et al., 35, 2024; permission conveyed through Copyright Clearance Center, Inc. 2. Powell MA, et al. presented at the SGO Annual Meeting on Women's Cancer 2024 (Oral Presentation), 16–18 Mar, San Diego, CA.

**WILL ICIs alone replace chemotherapy
in the front line setting of dMMR EC ?**



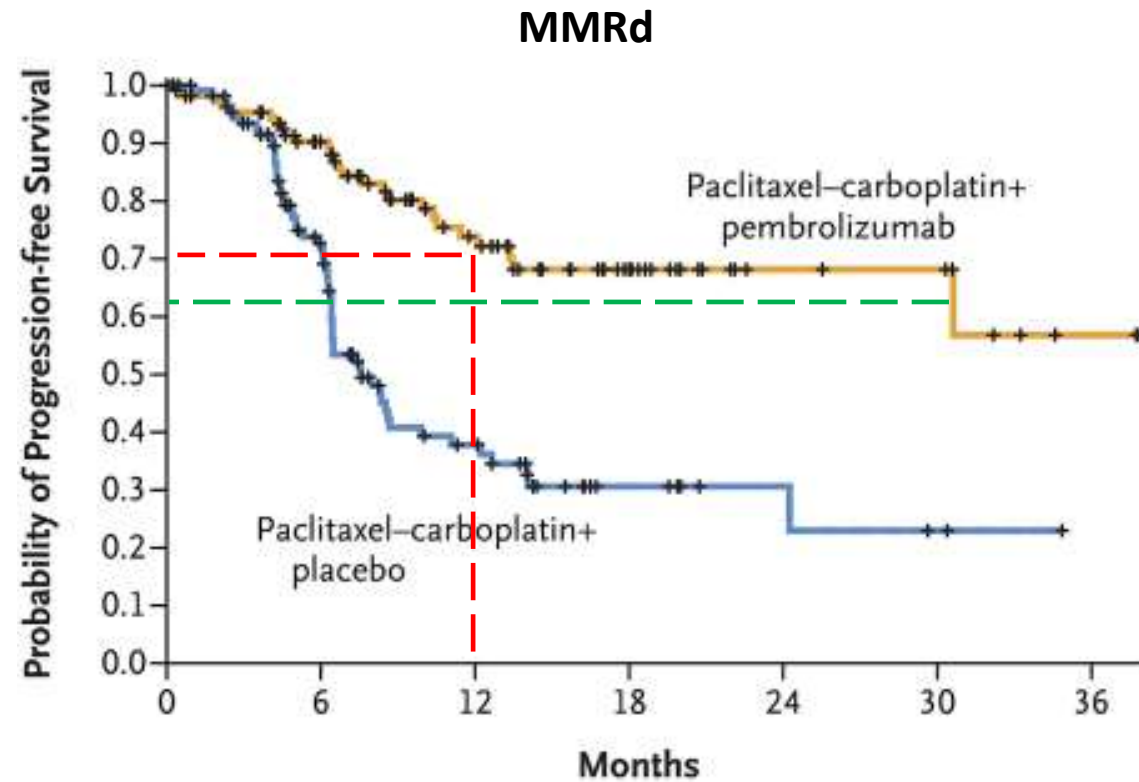
dMMR EC :Do we need chemo in this group?



I contenuti si riferiscono a prodotti p disegni di studi clinici investigazionali

Can we do better?

How to personalize?

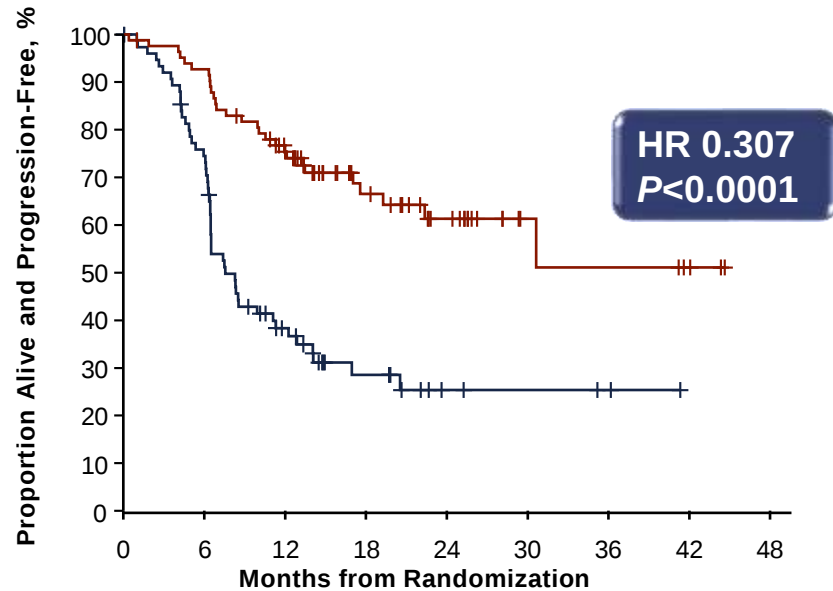


~30% “bad MMRd” ~70% “good MMRd”

NRG 018: PFS by Methylation Status in dMMR Population

Methylation Pembro + CP vs Placebo + CP

	Events n/N	Median (95% CI), mo	HR (95% CI)
Placebo + CP	51/77	7.5 (6.4–11.3)	0.307 (0.19–0.49) <i>P</i> < 0.0001
Pembro + CP	28/83	NR (22.3–NR)	

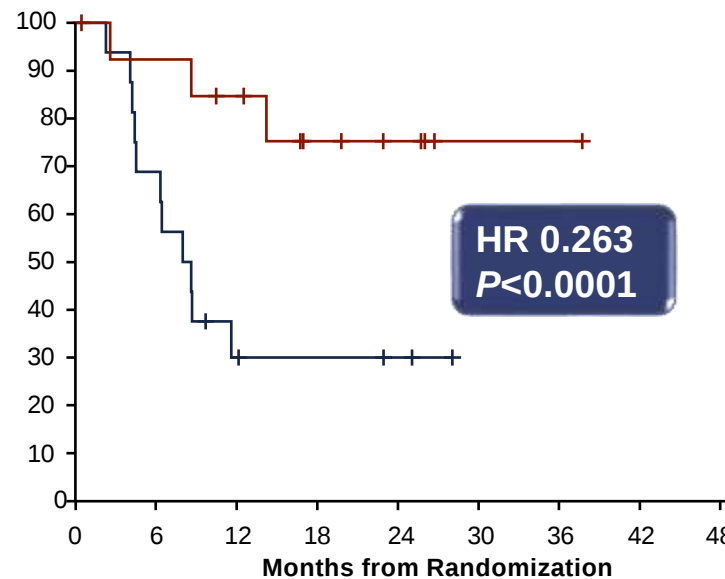


Number at risk (Cumulative number censored)

Placebo + CP	77 (2)	55 (3)	23 (9)	11 (16)	4 (22)	3 (23)	2 (24)	0 (26)
Pembro + CP	83 (0)	76 (1)	56 (7)	30 (28)	18 (38)	6 (50)	5 (50)	3 (52)

No Methylation Pembro + CP vs Placebo + CP

	Events n/N	Median (95% CI), mo	HR (95% CI)
Placebo + CP	11/17	8.3 (4.4–NR)	0.263 (0.07–0.99) <i>P</i> = 0.0172
Pembro + CP	3/13	NR (14.2–NR)	

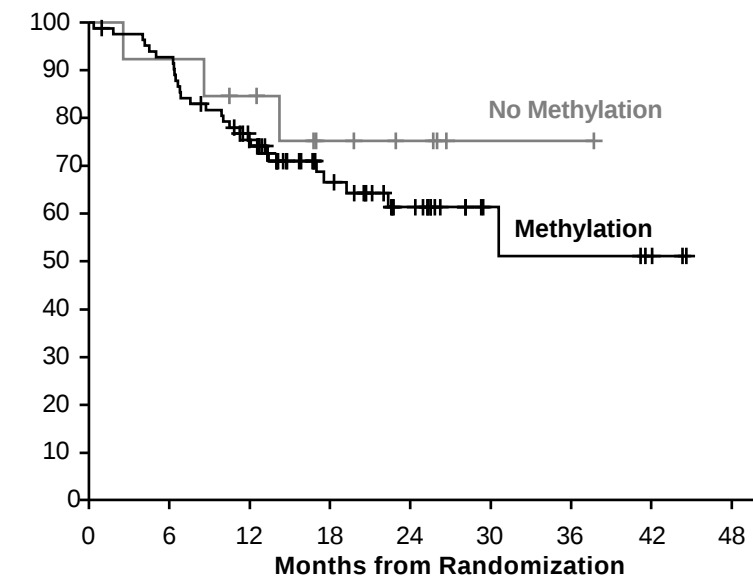


Number at risk (Cumulative number censored)

Placebo + CP	17 (0)	11 (1)	4 (2)	3 (3)	2 (4)	0 (6)
Pembro + CP	13 (0)	12 (0)	10 (1)	6 (4)	4 (6)	1 (9)

Methylation Status Pembro + CP Arm

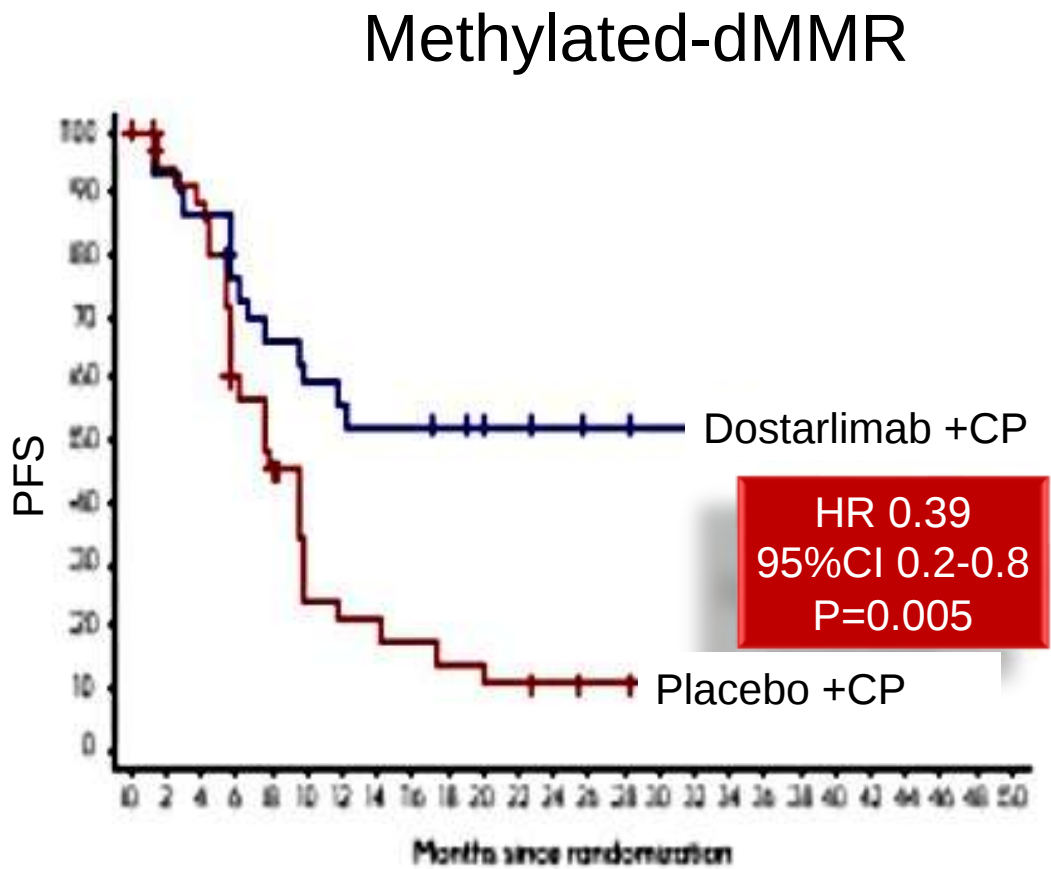
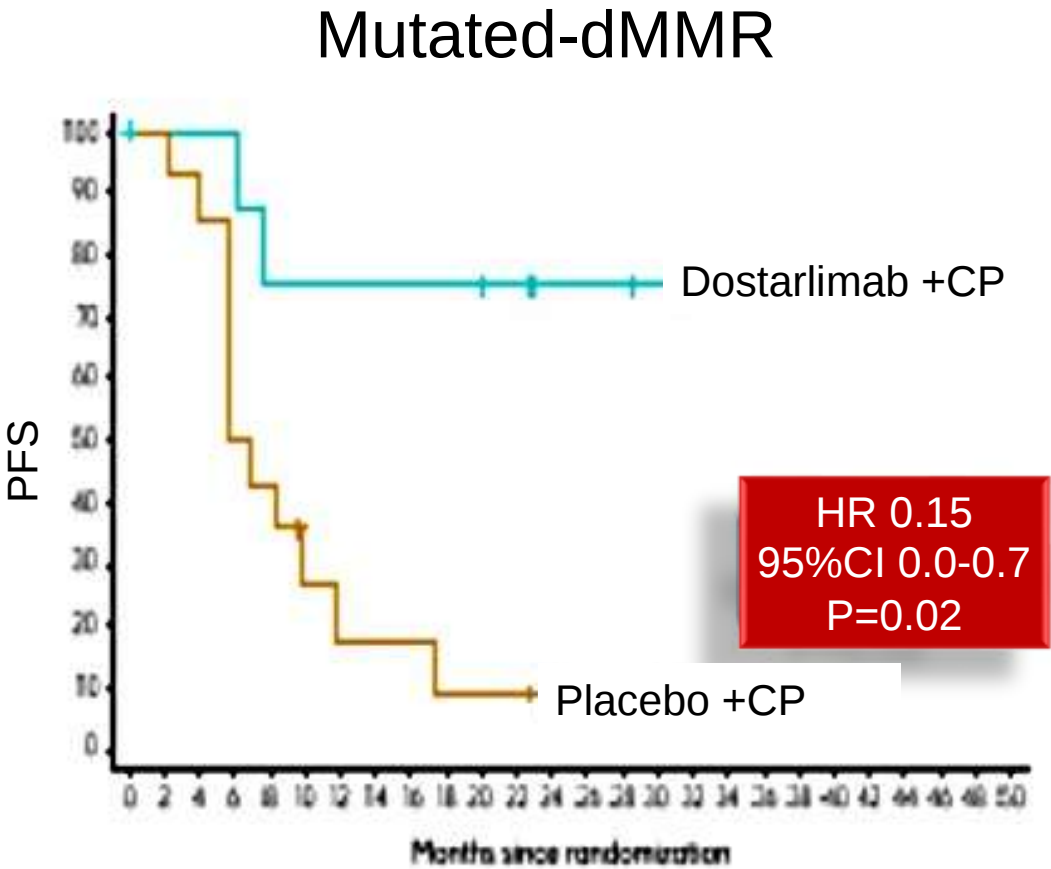
	Events n/N	Median (95% CI), mo
No Methylation	3/13	NR (14.2–NR)
Methylation	28/83	NR (22.3–NR)



Number at risk (Cumulative number censored)

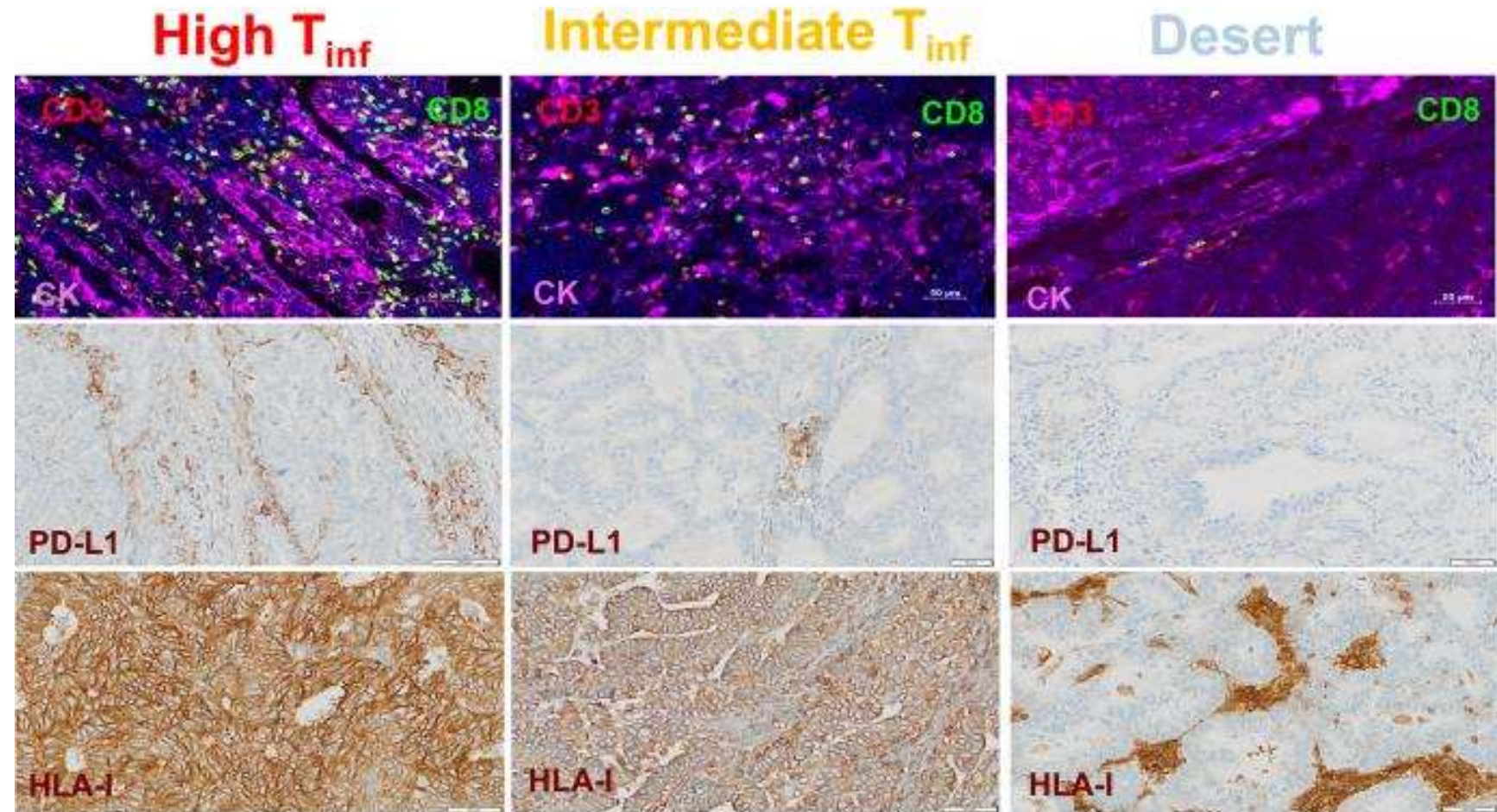
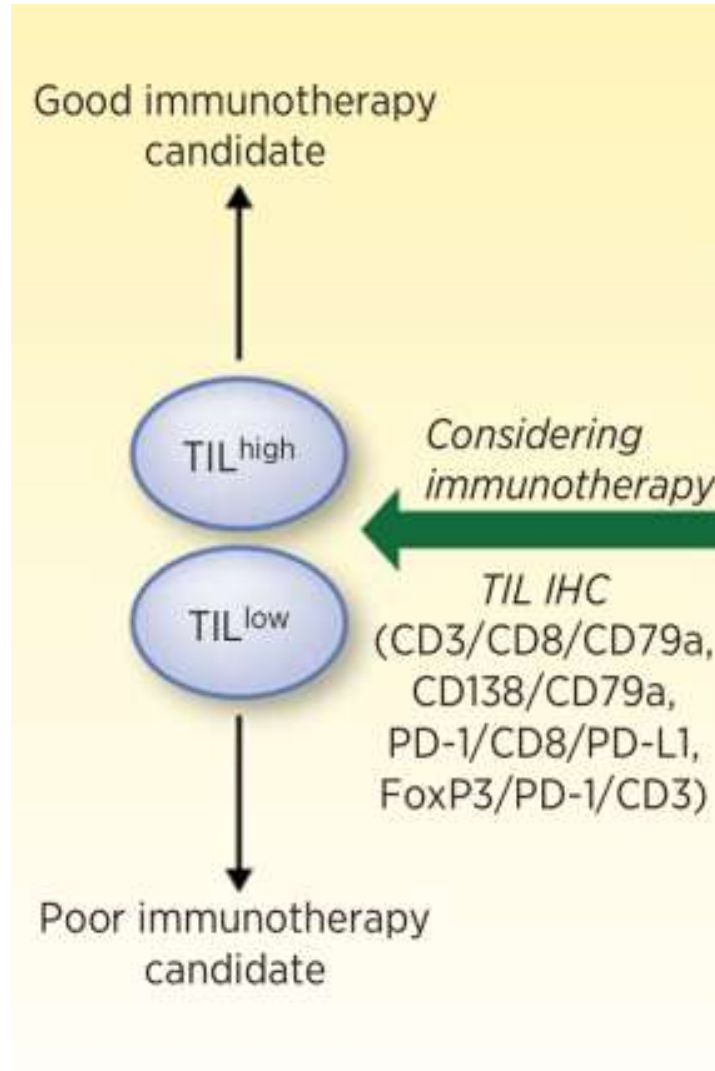
No Methylation	13 (0)	12 (0)	10 (1)	6 (4)	4 (6)	1 (9)	1 (9)	0 (10)
Methylation	83 (0)	76 (1)	56 (7)	30 (28)	18 (38)	6 (50)	5 (50)	3 (52)

Eskander, ESGO 2023



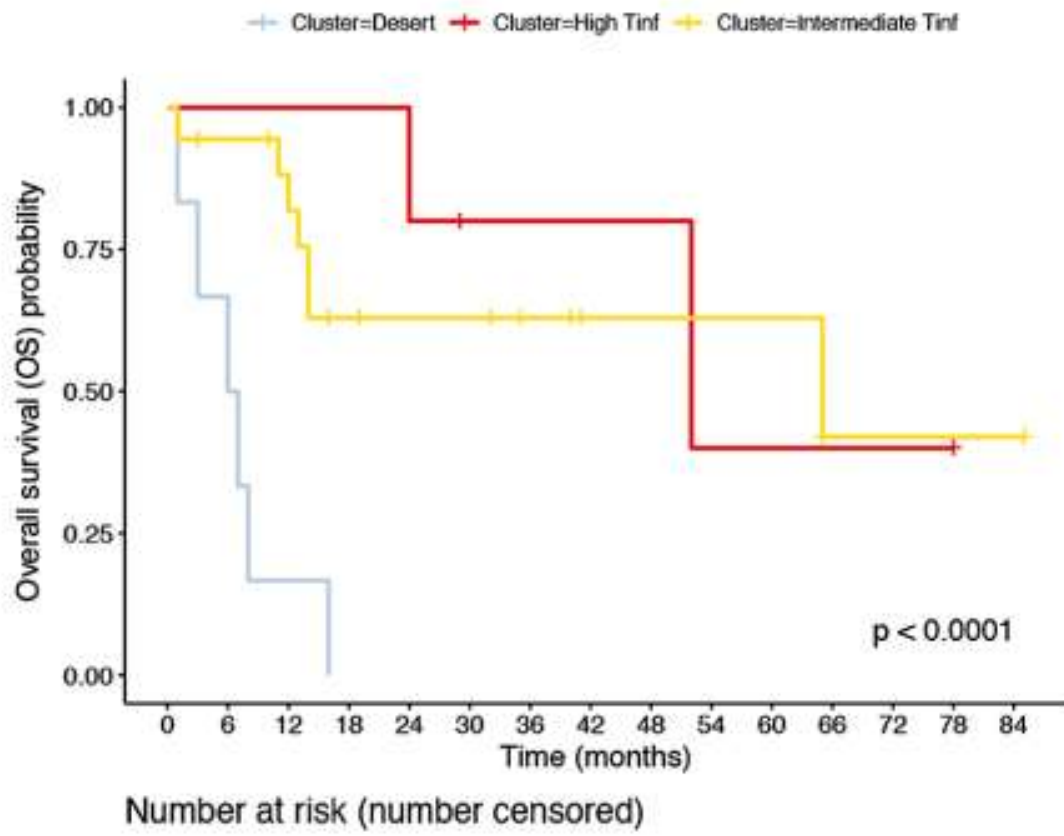
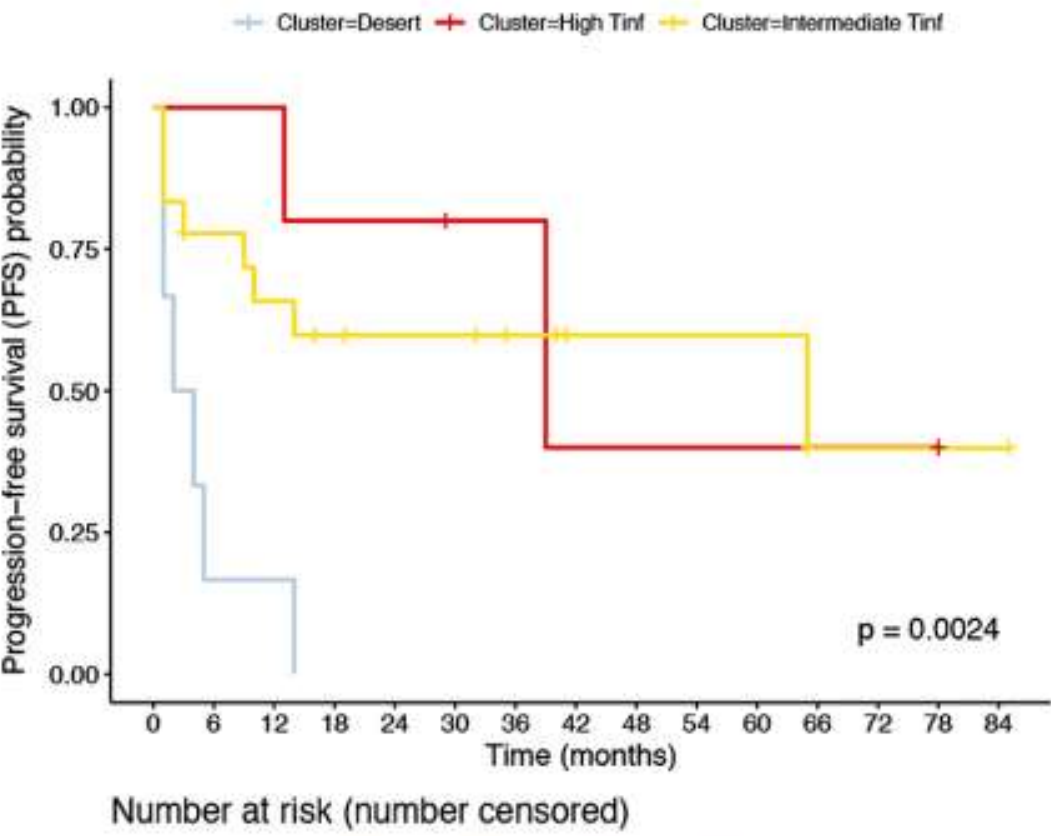
Mansoor Mirza et al. ASCO 2024

Immune predictors of response to immune checkpoint inhibitors in MMRd EC



Grau Bejar JF, Alexandra Leary, et al. Journal for ImmunoTherapy of Cancer 2024; Mary M. Mullen and David G. Mutch, Clin Cancer Res 2019

Immune predictors of response to immune checkpoint inhibitors in MMRd EC



Assessment of immune response (rather than molecular subtype) may better predict response to immunotherapy

0 (0)
0 (3)
10 (10)

Grau Bejar JF, Alexandra Leary, et al. Journal for ImmunoTherapy of Cancer 2024

SYSTEMIC THERAPY

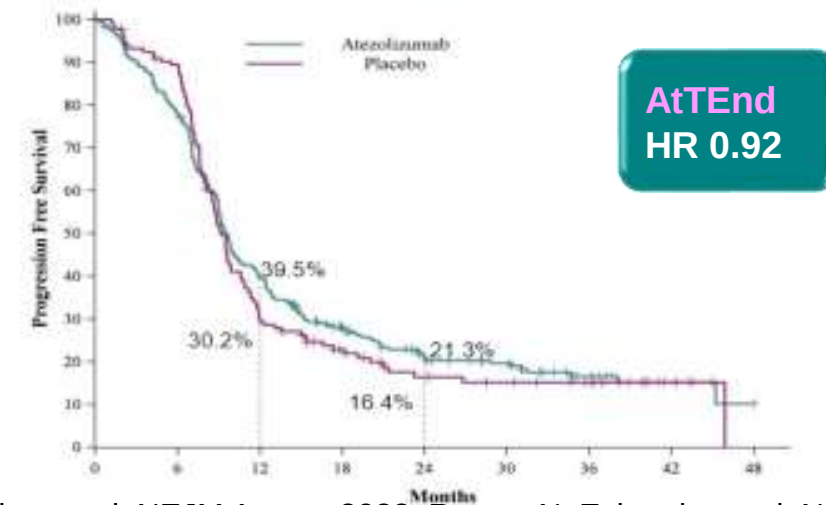
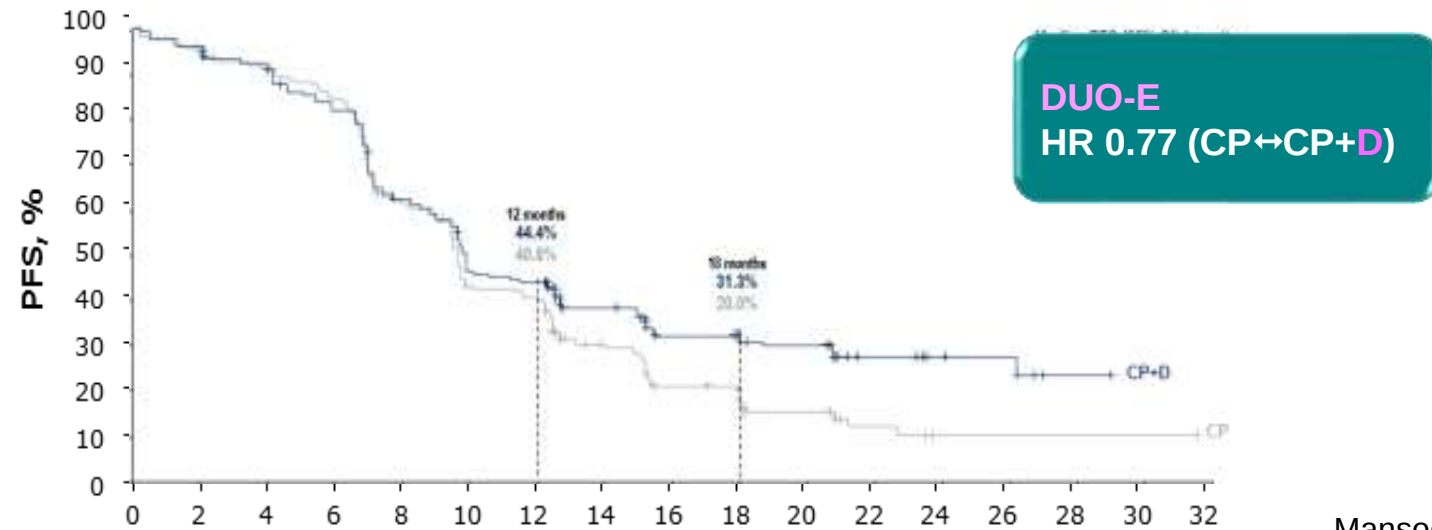
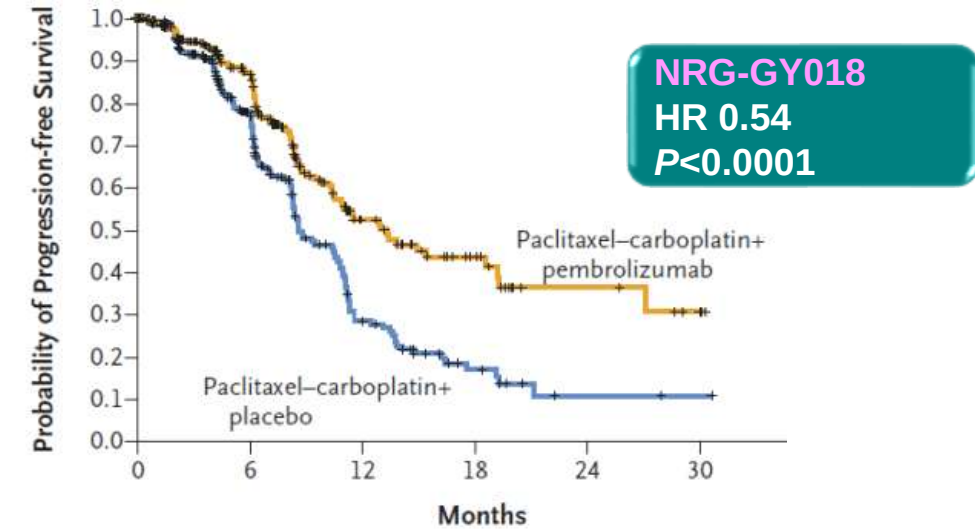
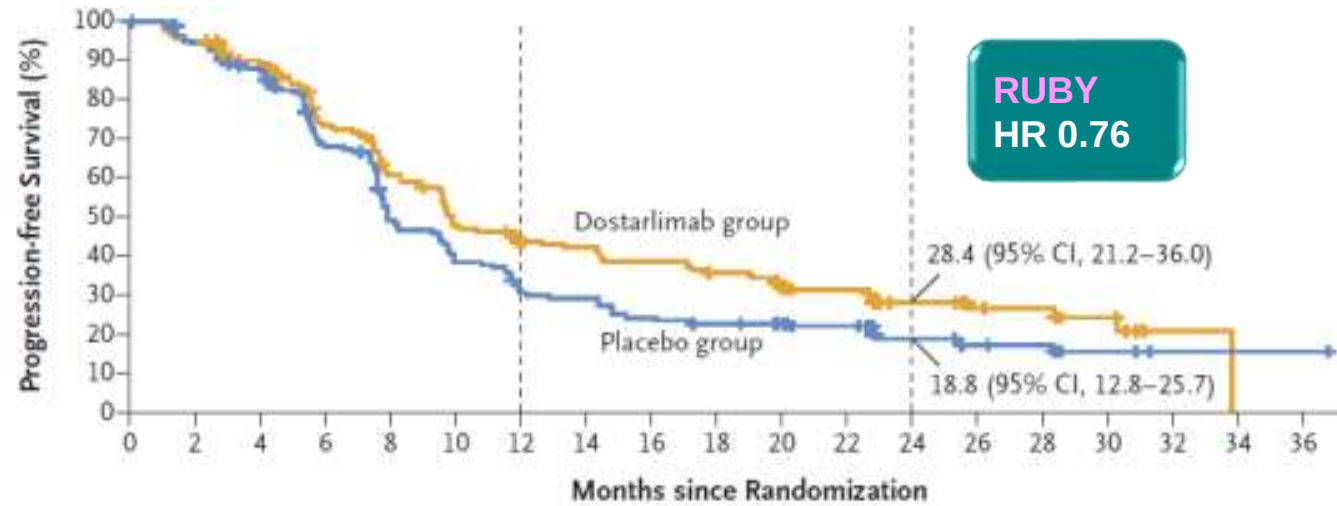
FIRST LINE SYSTEMIC THERAPY

in unresectable stage III/IV or recurrent EC with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)

- Patients with non-MMRd tumours with rapidly growing/symptomatic disease should be offered carboplatin- paclitaxel chemotherapy [I, A]. The addition of ICI to chemotherapy followed by ICI as maintenance therapy, e.g. dostarlimab or pembrolizumab (drugs mentioned in alphabetical order), or the addition of ICI followed by a combination of ICI and PARPi as maintenance therapy, i.e. durvalumab and olaparib, can be considered [I, B].

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Immune Checkpoint Inhibitor plus Chemotherapy in First-line Endometrial Cancer: PFS non-MMRd Tumors



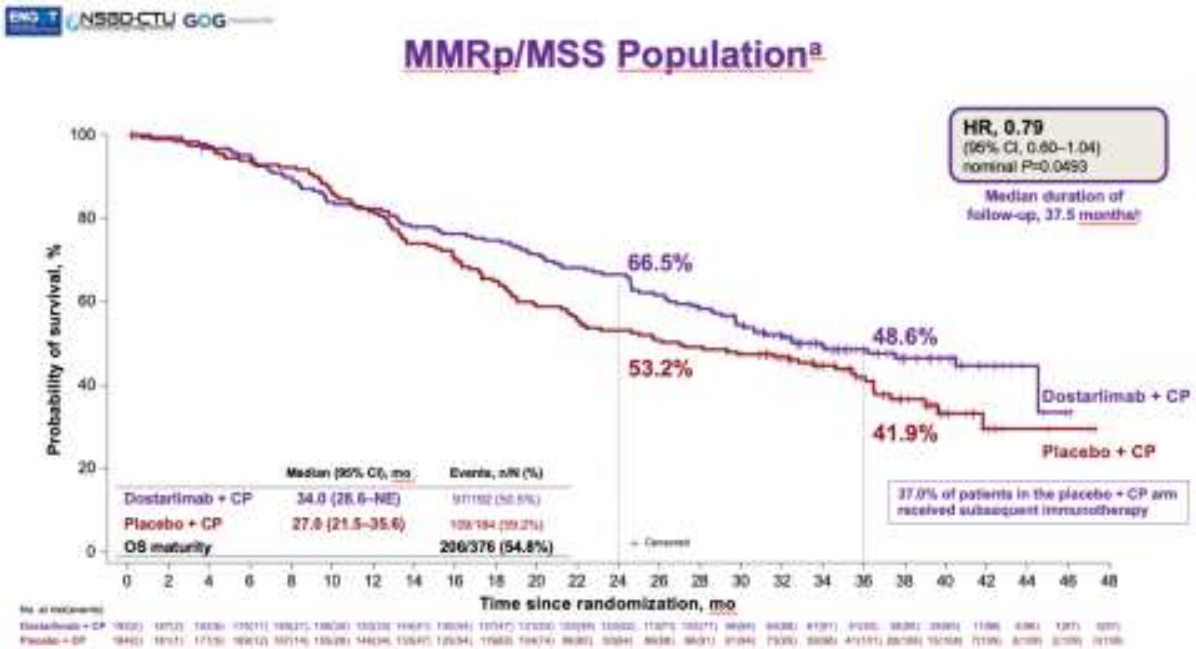
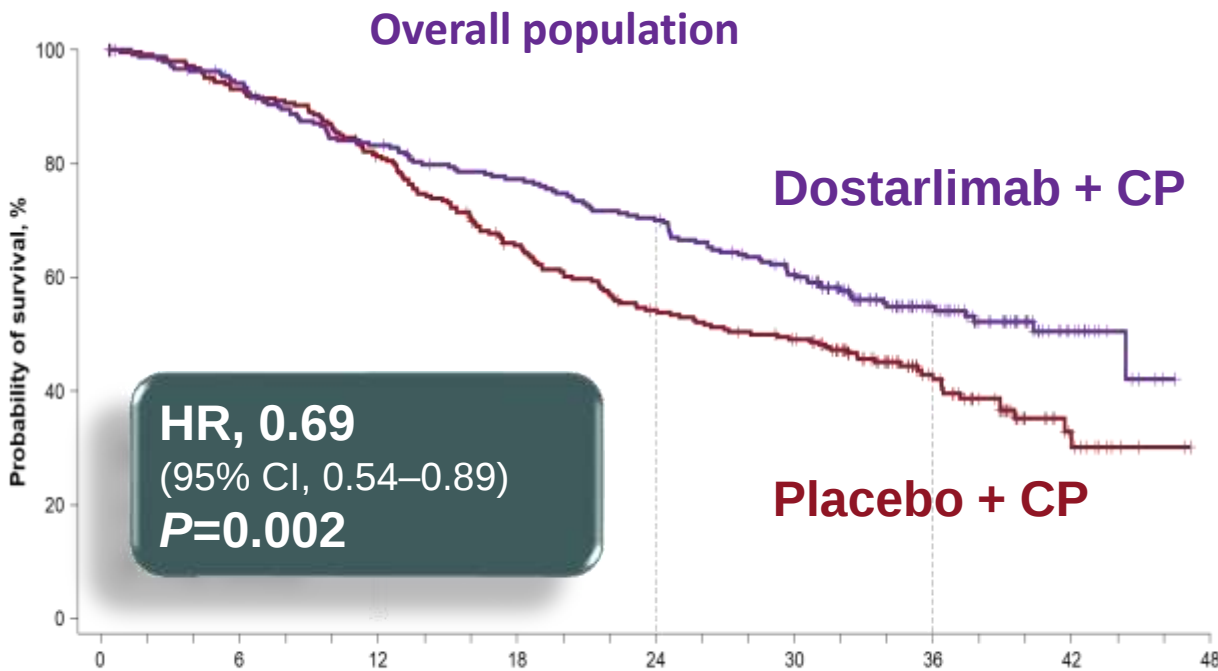
Mansoor R. Mirza et al. NEJM August 2023, Ramez N. Eskander et al. NEJM August 2023, Nicoletta Colombo et al., Lancet Oncology 2024, Shannon N. Westin, et al. ESGO 2023

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*JEMPERLI è attualmente approvato in Europa (dalla European Medicines Agency, EMA) in associazione a carboplatino e paclitaxel per il trattamento di prima linea di pazienti adulte affette da CE primario avanzato o ricorrente e che sono candidate per la terapia sistemica. Tuttavia, in Italia, questa indicazione non è rimborsata per le pazienti con CE primario avanzato o ricorrente in assenza di deficit del sistema di mismatch repair (MMR proficient, MMRp)/con stabilità dei microsatelliti (Microsatellite Stable, MSS) e che sono candidate per la terapia sistemica.

Dostarlimab for Primary Advanced or Recurrent Endometrial Cancer: OS

RUBY/ENGOT-en6

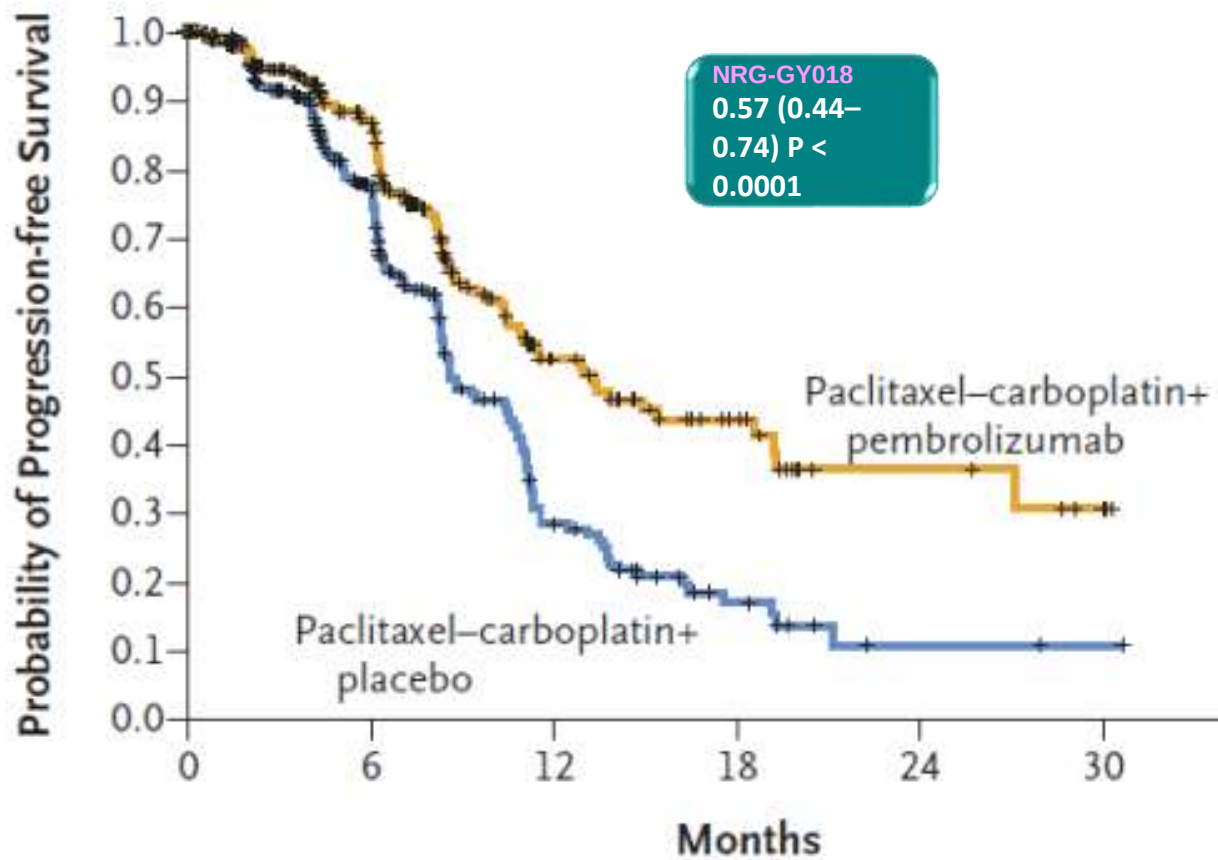


A clear trend favoring dostarlimab was observed, suggesting a **21% reduction in the risk of death**. This analysis was exploratory , so the P value less than 0.05 is **not formally considered statistically significant**

Powell, M.A. et al. Annals of Oncology, Volume 35, Issue 8, 728 – 738, 2024;

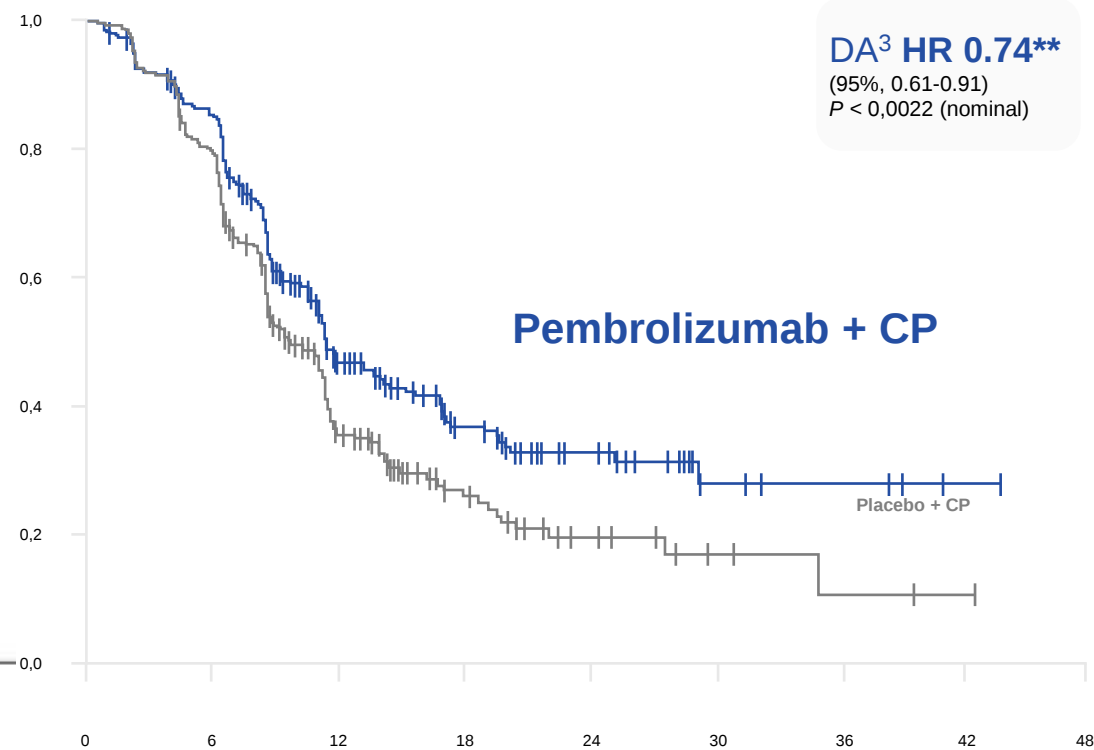
^aJEMPERLI è attualmente approvato in Europa (dalla European Medicines Agency, EMA) in associazione a carboplatino e paclitaxel per il trattamento di prima linea di pazienti adulte affette da CE primario avanzato o ricorrente e che sono candidate per la terapia sistemica. Tuttavia, in Italia, questa indicazione non è rimborsata per le pazienti con CE primario avanzato o ricorrente in assenza di deficit del sistema di mismatch repair (MMR proficient, MMRp)/con stabilità dei microsatelliti (Microsatellite Stable, MSS) e che sono candidate per la terapia sistemica.

NRG-018: non-MMRd population



Ramez N. Eskander et al. NEJM August 2023

NRG-GY018^{2,3} – Data maturity: NA
Updated Descriptive Analysis (DA)**. Median follow-up: 15.3 months

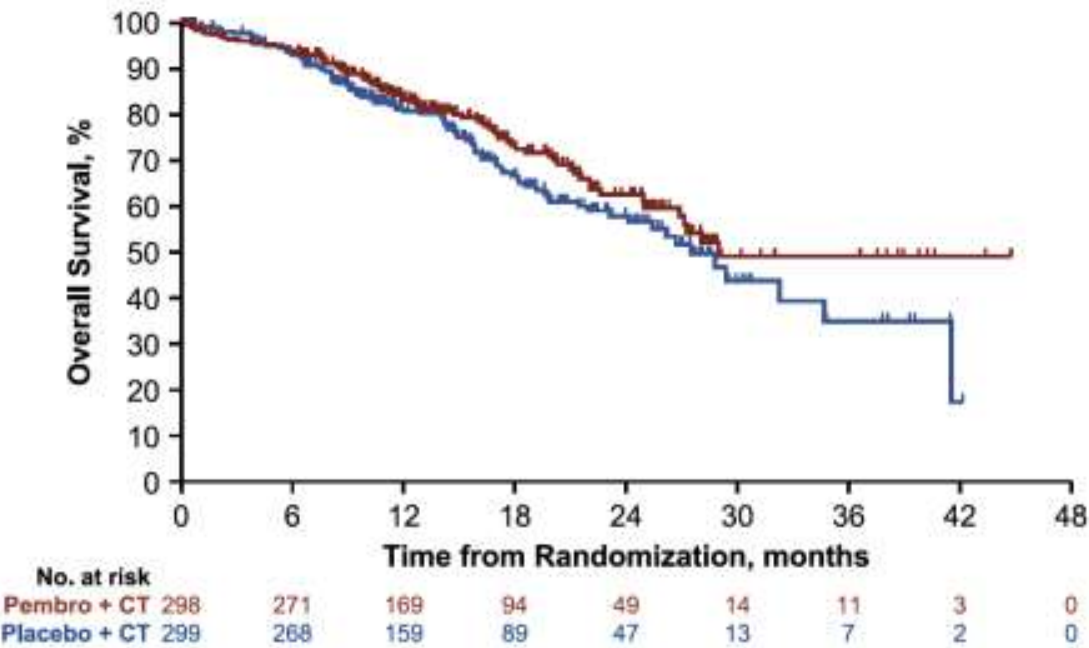


DA, descriptive analysis at the request of the European Regulatory Authority after unblinding. DCO 18.08.2023

NRG-018: OS in non-MMRd population

A)

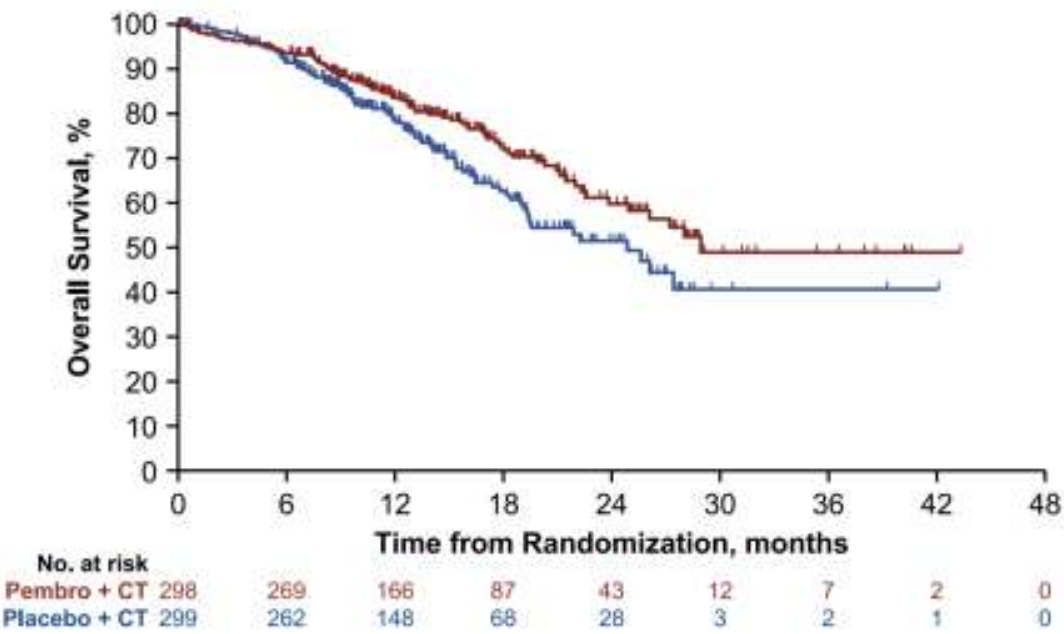
	Events, n/N	Follow-up Duration ^a , median (range), mo	Median OS (95% CI), mo	HR (95% CI) ^b , <i>P</i> -value ^c
Pembro + CT	77/298	15.7 (0.5–45.4)	28.9 (26.8–NR)	0.80 (0.59–1.08) <i>P</i> = 0.0683
Placebo + CT	92/299	15.0 (0.9–45.6)	28.7 (24.0–34.6)	



C)

Sensitivity analysis in the pMMR population at ad hoc analysis

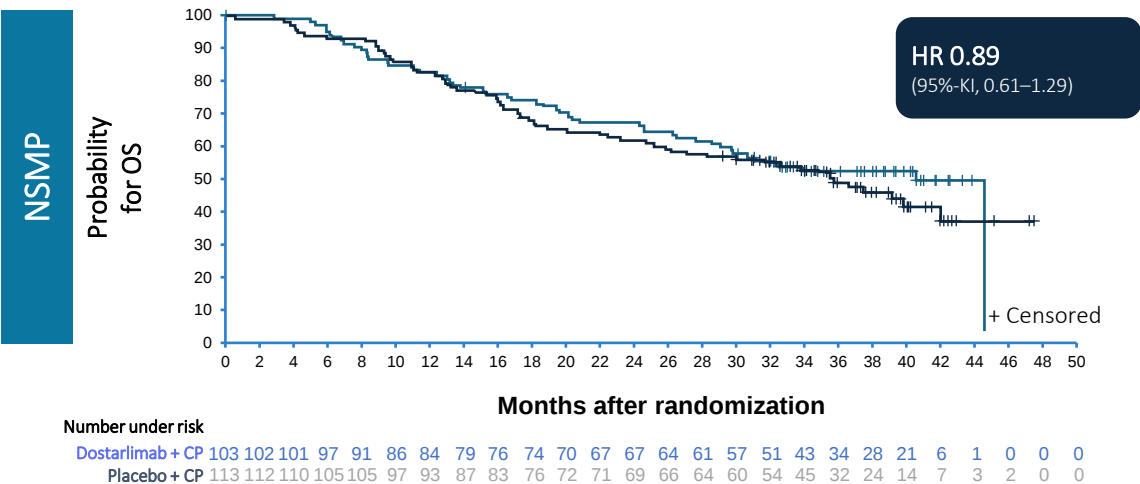
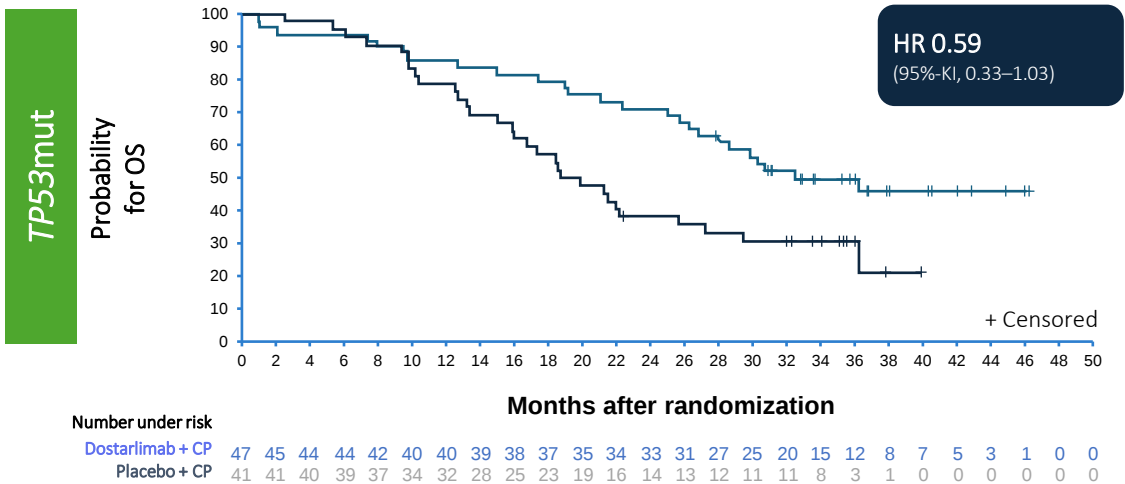
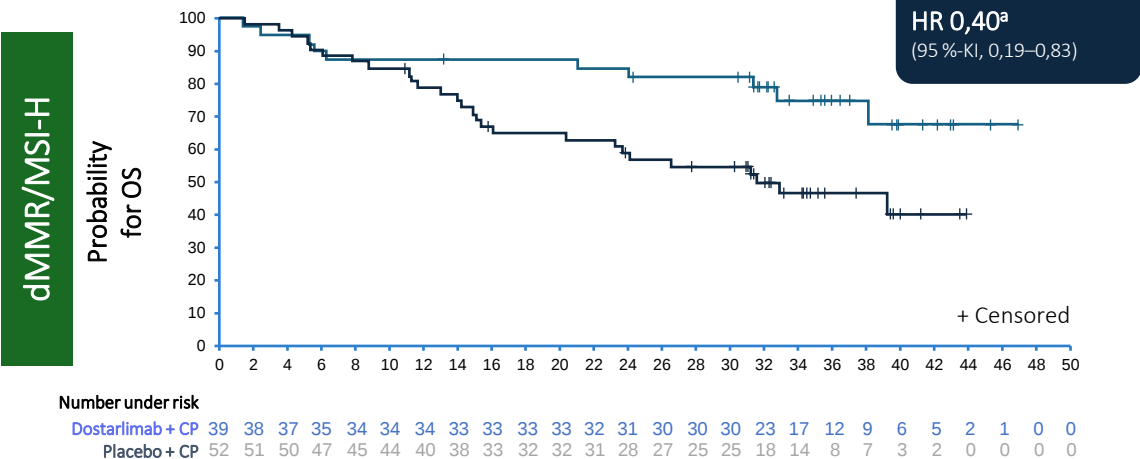
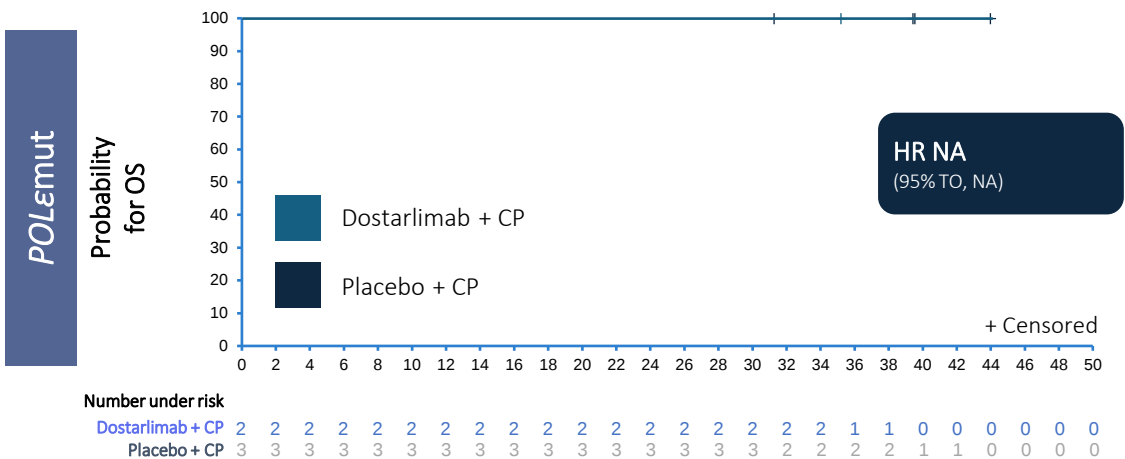
	Events, n/N	Median OS (95% CI), mo	HR (95% CI) ^b
Pembro + CT	77/298	28.9 (24.9–NR)	0.70 (0.50–0.98)
Placebo + CT	92/299	24.8 (19.3–NR)	





**Can we identify the best responders
among the non-MMRd patients?**

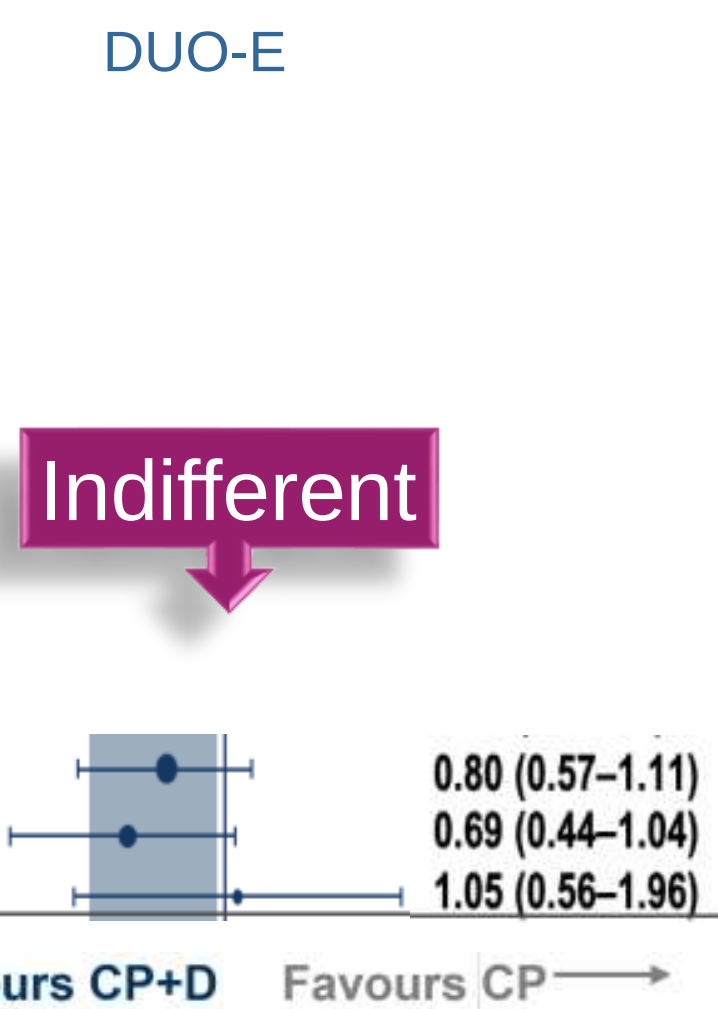
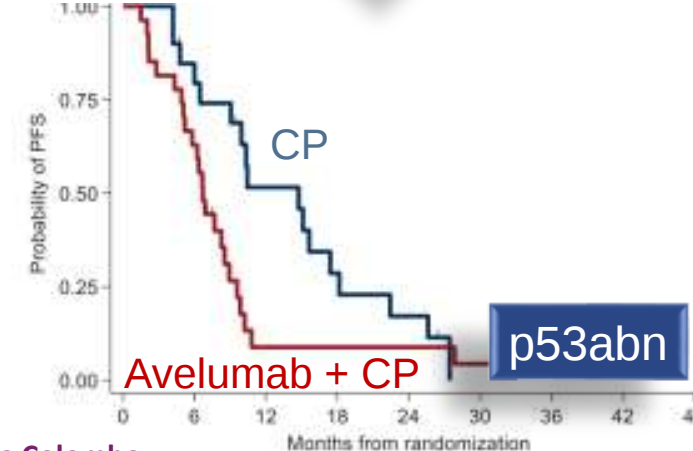
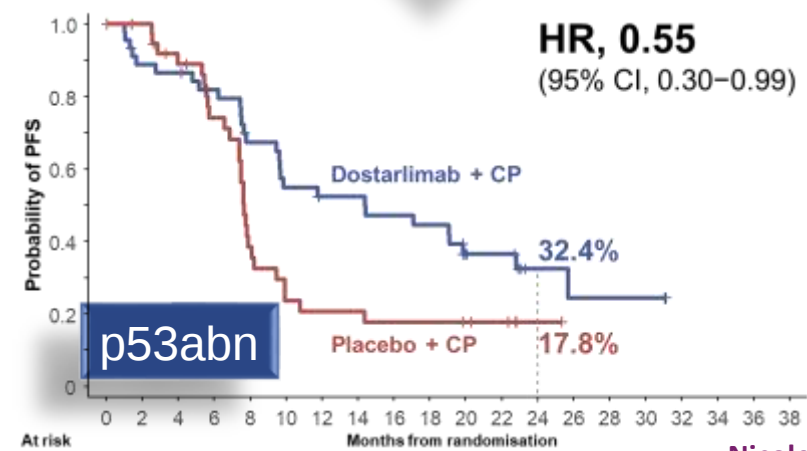
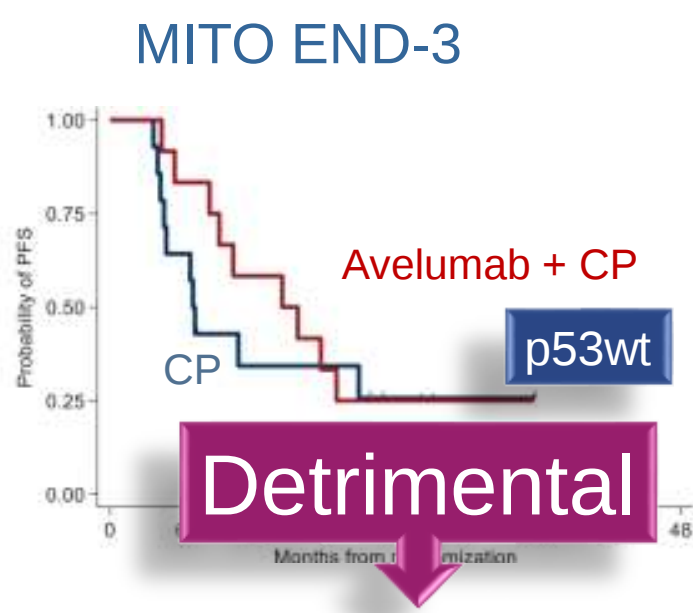
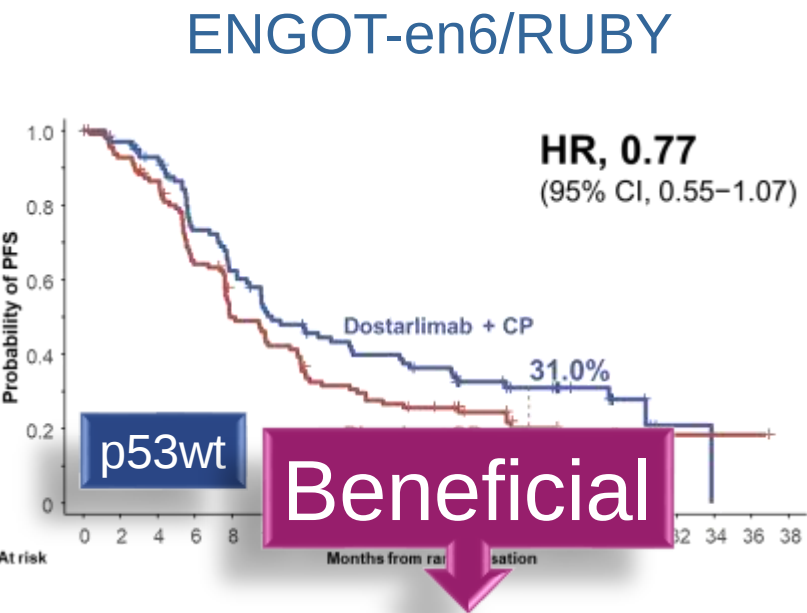
RUBY: OS according to molecular subgroup



*JEMPERLI è attualmente approvato in Europa (dalla European Medicines Agency, EMA) in associazione a carboplatino e paclitaxel per il trattamento di prima linea di pazienti adulte affette da CE primario avanzato o ricorrente e che sono candidate per la terapia sistemica. Tuttavia, in Italia, questa indicazione non è rimborsata per le pazienti con CE primario avanzato o ricorrente in assenza di deficit del sistema di mismatch repair (MMR proficient, MMRp)/con stabilità dei microsatelliti (Microsatellite Stable, MSS) e che sono candidate per la terapia sistemica.

^aAnalysis shown on this slide is post hoc exploratory analysis of 91 patients with dMMR/MSI-H EC and WES results. In the prespecified OS analysis of the dMMR/MSI-H population (n=118), shown earlier, HR was 0.32.
CI, confidence interval; CP, carboplatin-paclitaxel; Dost, dostarlimab; dMMR, mismatch repair deficient; EC, endometrial cancer; HR, hazard ratio; MSI-H, microsatellite instability-high; mut, mutated; NA, not applicable; NSMP, no specific molecular profile; OS, overall survival; PBO, placebo; POLε, polymerase epsilon; TP53, tumor protein 53; WES, whole-exome sequencing.
Powell MA, et al. Presented at the ESMO Gynaecological Cancers Meeting 2024. Presentation 37MO.

IO and PFS in non-dMMR TP53mut and TP53wt



*JEMPERLI è attualmente approvato in Europa (dalla European Medicines Agency, EMA) in associazione a carboplatino e paclitaxel per il trattamento di prima linea di pazienti adulte affette da CE primario avanzato o ricorrente e che sono candidate per la terapia sistemica. Tuttavia, in Italia, questa indicazione non è rimborsata per le pazienti con CE primario avanzato o ricorrente in assenza di deficit del sistema di mismatch repair (MMR proficient, MMRp)/con stabilità dei microsatelliti (Microsatellite Stable, MSS) e che sono candidate per la terapia sistemica.

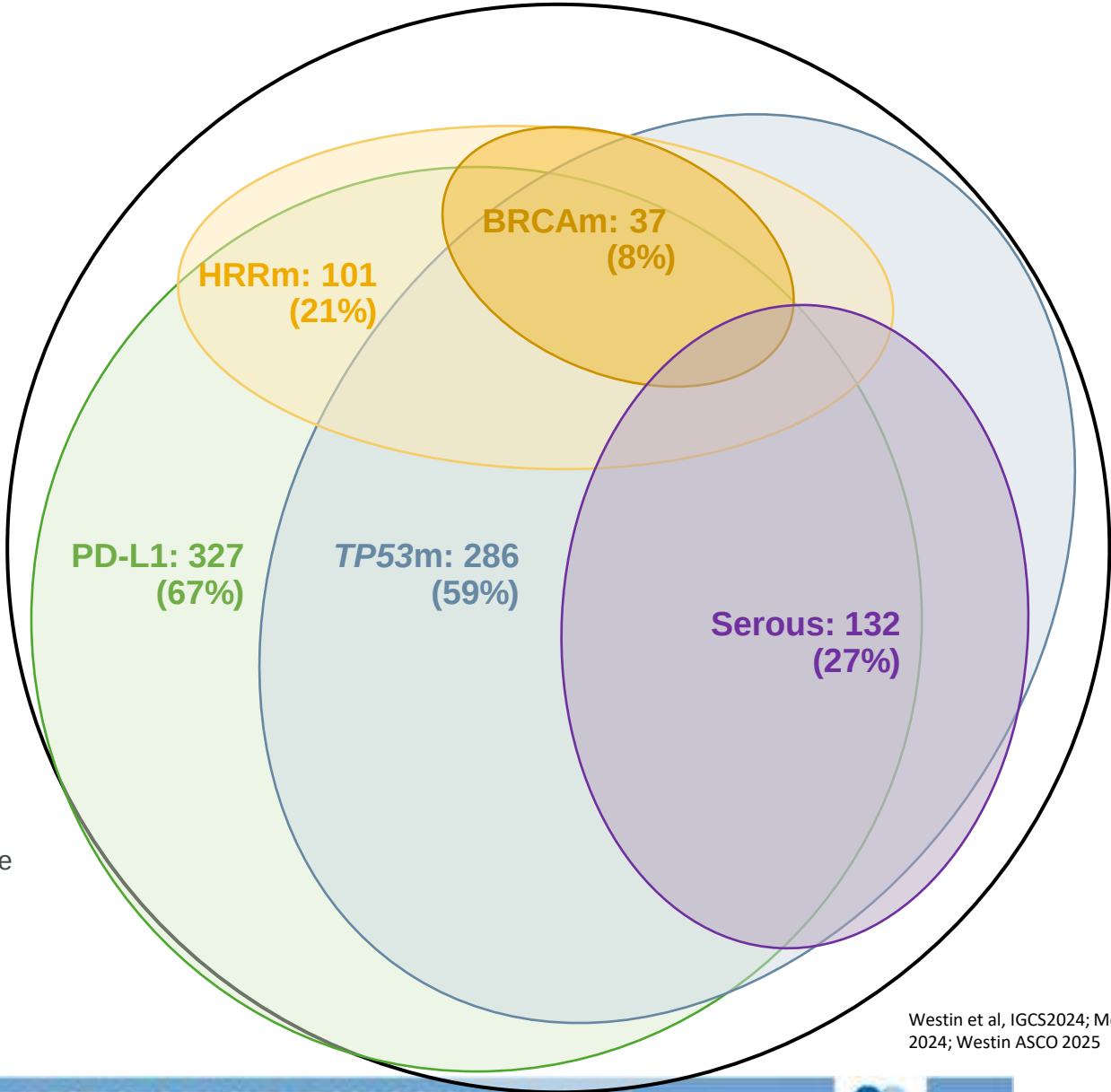
Mansoor Mirza, et al. ESMO 2023; Sandro Pignata, et al. Ann Oncol 2024, Westin et al. IGCS 2024

The pMMR biomarker-known (n=486) subpopulation was heterogeneous, with a large overlap of biomarkers:

- 84% of patients were positive for one or more biomarkers
- PD-L1 positive and TP53m were the most prevalent biomarkers

	PD-L1 positive	TP53m	HRRm	BRCAm	POLEm	Serous
PD-L1 positive	67%	44%	16%	6%	2%	20%
TP53m	44%	59%	14%	6%	2%	24%
HRRm	16%	14%	21%	8%	2%	6%
BRCAm	6%	6%	8%	8%	1%	3%
POLEm	2%	2%	2%	1%	2%	0%
Serous	20%	24%	6%	3%	0%	27%

- pMMR
- PD-L1 positive
- TP53m
- HRRm
- BRCAm
- Serous

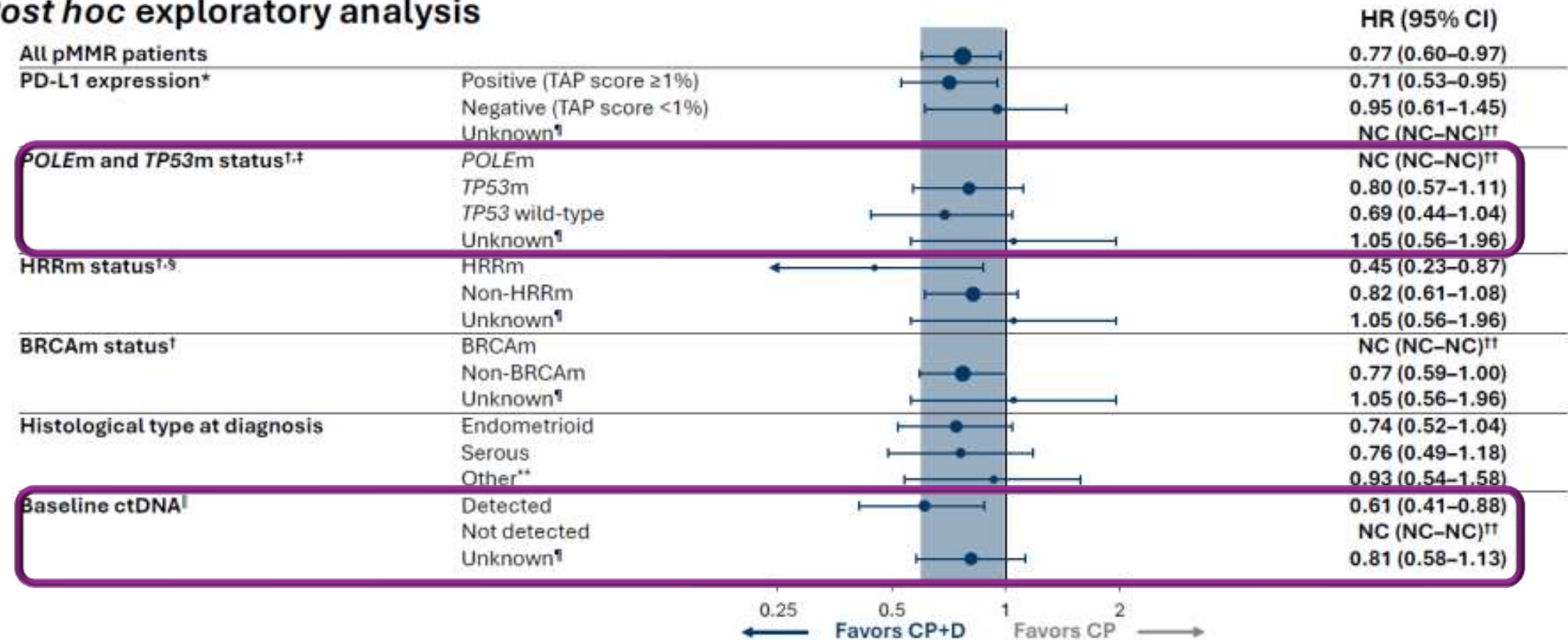


Westin et al, IGCS2024; Moore S
2024; Westin ASCO 2025

pMMR subpopulation: PFS by biomarker subgroup

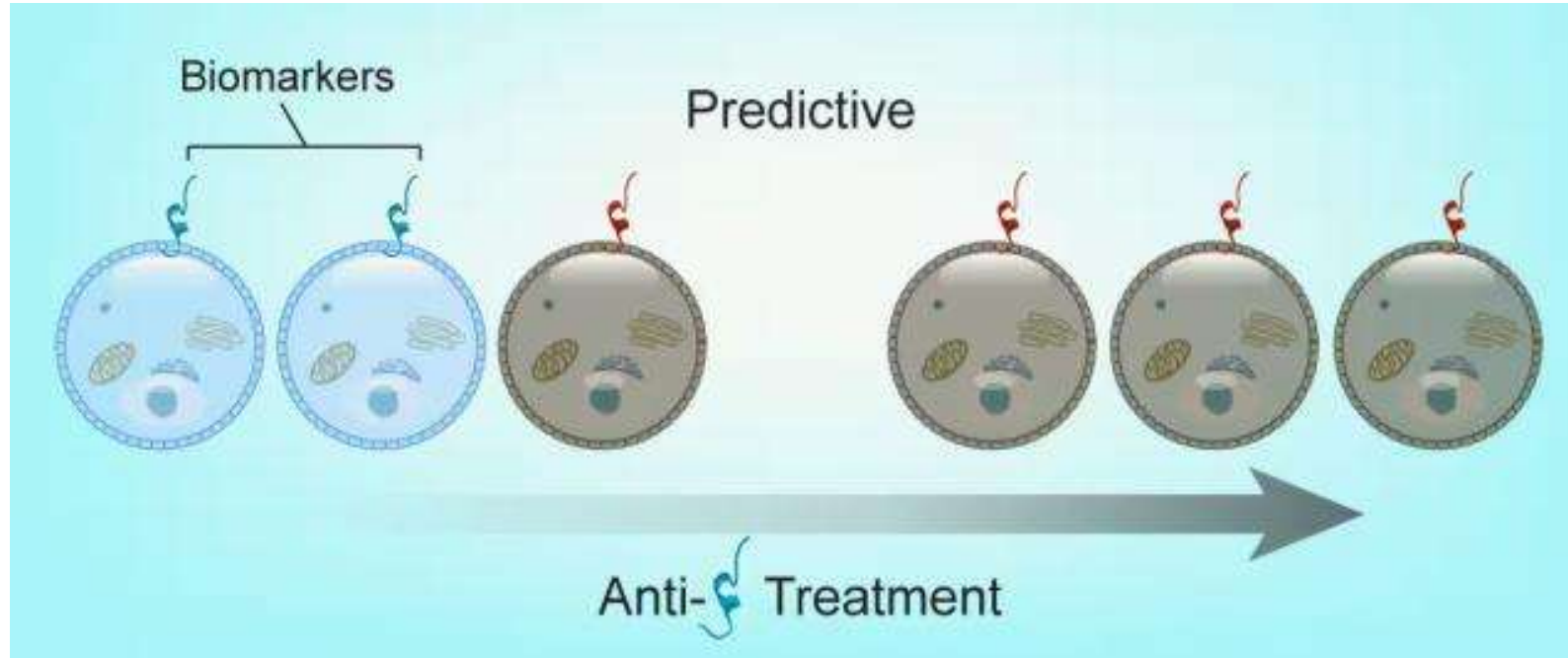
CP + durvalumab vs CP

Post hoc exploratory analysis

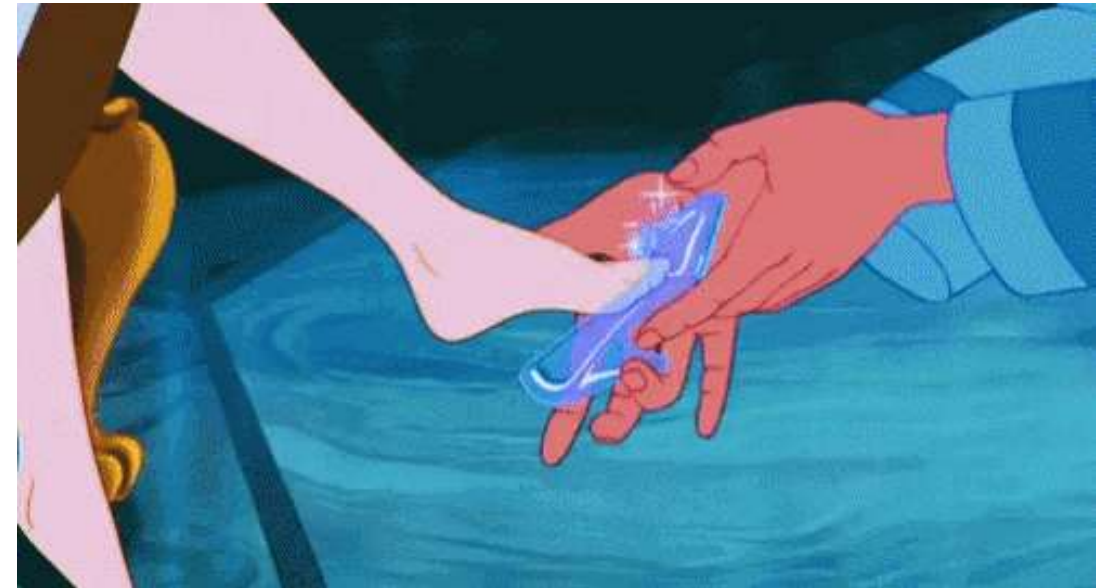


DCO: April 12, 2023. *PD-L1 expression was evaluated using the VENTANA PD-L1 (SP263) assay. PD-L1 positive defined as TAP ≥1%, PD-L1 negative defined as TAP <1%; [†]Status determined retrospectively in two ways: from tissue samples (FoundationOne[®]CDx assay; Foundation Medicine, Inc.), and by molecular profiling of ctDNA (FoundationOne[®]Liquid CDx; Foundation Medicine, Inc.) from blood samples; [‡]TP53m status defined as a sample with a deleterious or suspected deleterious mutation in TP53 excluding samples with a deleterious or suspected deleterious mutation in POLE; TP53 wild-type status defined as a sample with no deleterious or suspected deleterious mutation in TP53 excluding samples with a deleterious or suspected deleterious mutation in POLE; [§]Positive HRRm status defined as a sample with a deleterious or suspected deleterious mutation in any of the following prespecified genes: ATM, BRCA1, BRCA2, BARD1, BRIP1, CDK12, CHEK1, CHEK2, FANCL, PALB2, RAD51B, RAD51C, RAD51D, and RAD54L; negative HRRm status (non-HRRm) defined as a sample with no deleterious or suspected deleterious mutations in any of the prespecified genes; ^{||}ctDNA was analyzed using the methylation-based Guardant Infinity[™] assay (Guardant Health, Palo Alto, CA); [§]Unknown status included patients recruited in China (where molecular testing was not performed) and/or patients who withdrew consent and/or those without available samples; ^{††}Other includes carcinosarcoma, mixed endometrial clear cell, undifferentiated, mucinous, and other. ^{†††}Not calculated due to low event numbers. NC, not calculable.

No predictive biomarkers to predict the benefit of ICI+ chemotherapy in the non-MMRD population

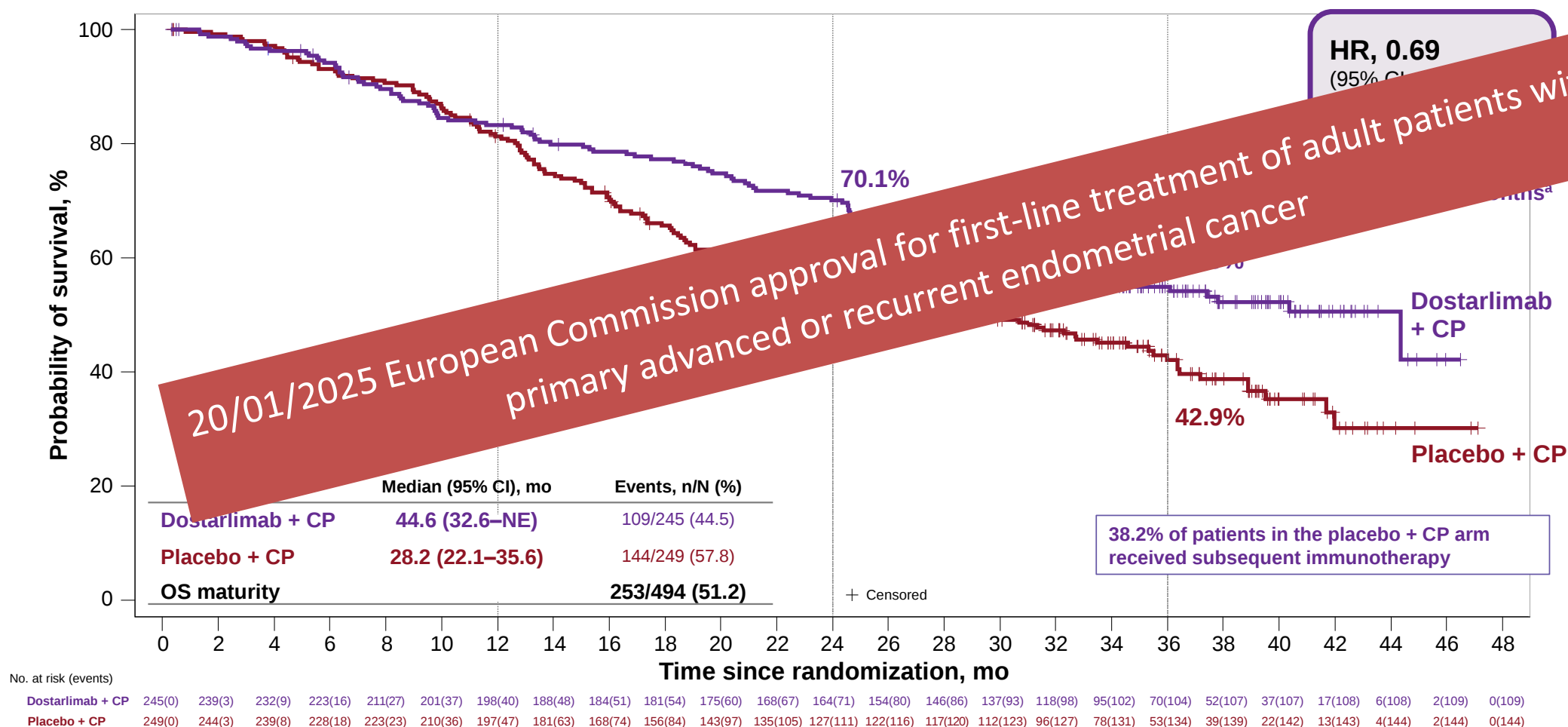


Like the Duke with Cinderella's glass slipper, we aim to find **the perfect fit—for every woman**, the right treatment...



IO + chemotherapy

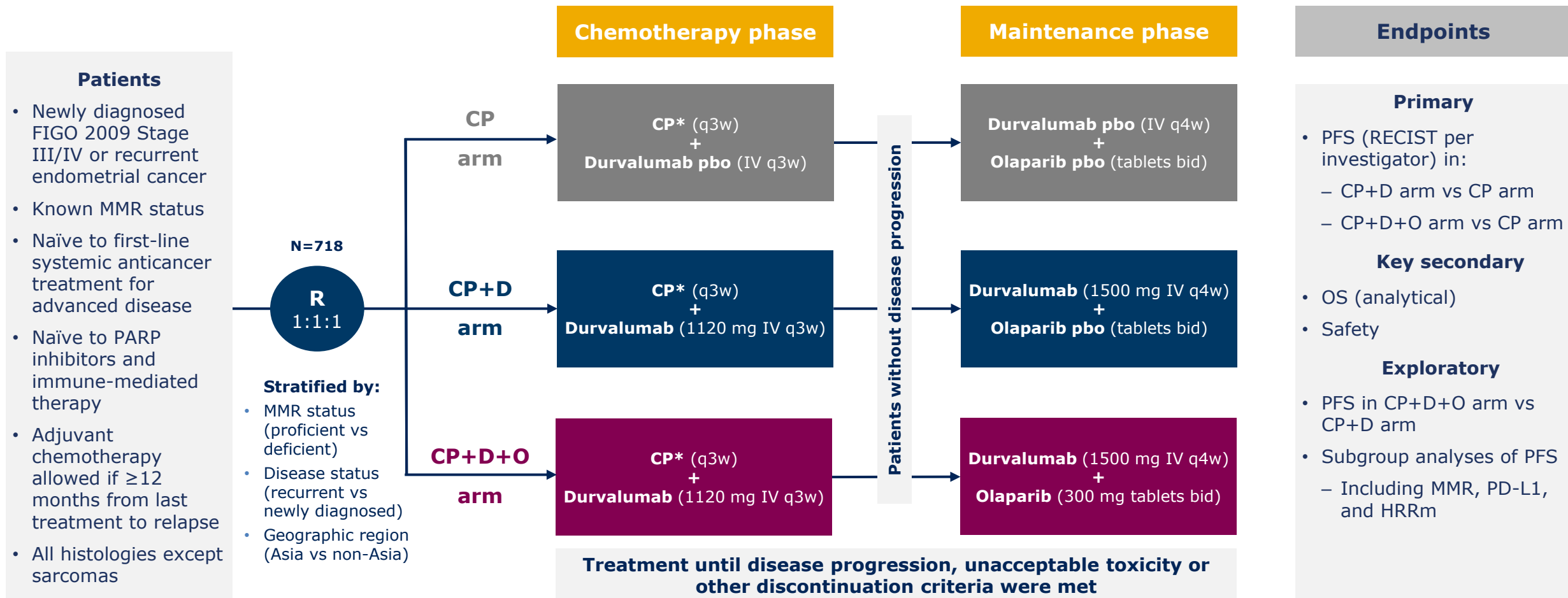
RUBY 1° endpoint: Statistically significant OS benefit in overall population



*JEMPERLI è attualmente approvato in Europa (dalla European Medicines Agency, EMA) in associazione a carboplatino e paclitaxel per il trattamento di prima linea di pazienti adulte affette da CE primario avanzato o ricorrente e che sono candidate per la terapia sistemica. Tuttavia, in Italia, questa indicazione non è rimborsata per le pazienti con CE primario avanzato o ricorrente in assenza di deficit del sistema di mismatch repair (MMR proficient, MMRp)/con stabilità dei microsatelliti (Microsatellite Stable, MSS) e che sono candidate per la terapia sistemica.

Powell, M.A. et al. Annals of Oncology, Volume 35, Issue 8, 728 – 738, 2024

DUO-E study design



*Six cycles of carboplatin at an area under the concentration–time curve of 5 or 6 mg per mL/min and paclitaxel 175 mg/m². bid, twice daily; CP, carboplatin/paclitaxel; D, durvalumab; FIGO, International Federation of Gynaecology and Obstetrics; HRRm, homologous recombination repair mutation; IV, intravenously; O, olaparib; pbo, placebo; q3(4)w, every 3(4) weeks; R, randomisation; RECIST, Response Evaluation Criteria for Solid Tumours.

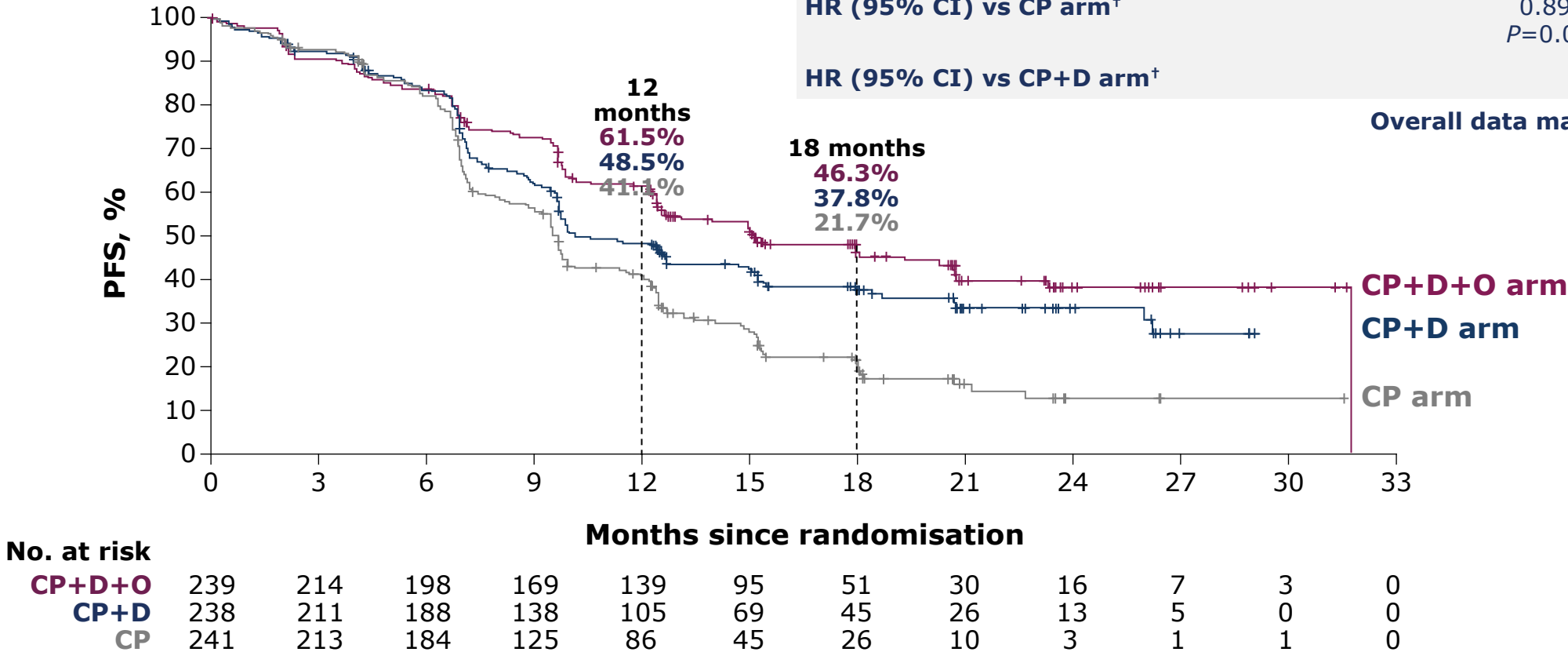
Westin SN *et al.* *J Clin Oncol* 2024;42:283–99

PFS: ITT population

Dual primary endpoints

	CP arm (N=241)	CP+D arm (N=238)	CP+D+O arm (N=239)
Events, n (%)	173 (71.8)	139 (58.4)	126 (52.7)
Median PFS (95% CI),* months	9.6 (9.0–9.9)	10.2 (9.7–14.7)	15.1 (12.6–20.7)
HR (95% CI) vs CP arm [†]		0.71 (0.57–0.89); P=0.003	0.55 (0.43–0.69); P<0.0001
HR (95% CI) vs CP+D arm [†]			0.78 (0.61–0.99)

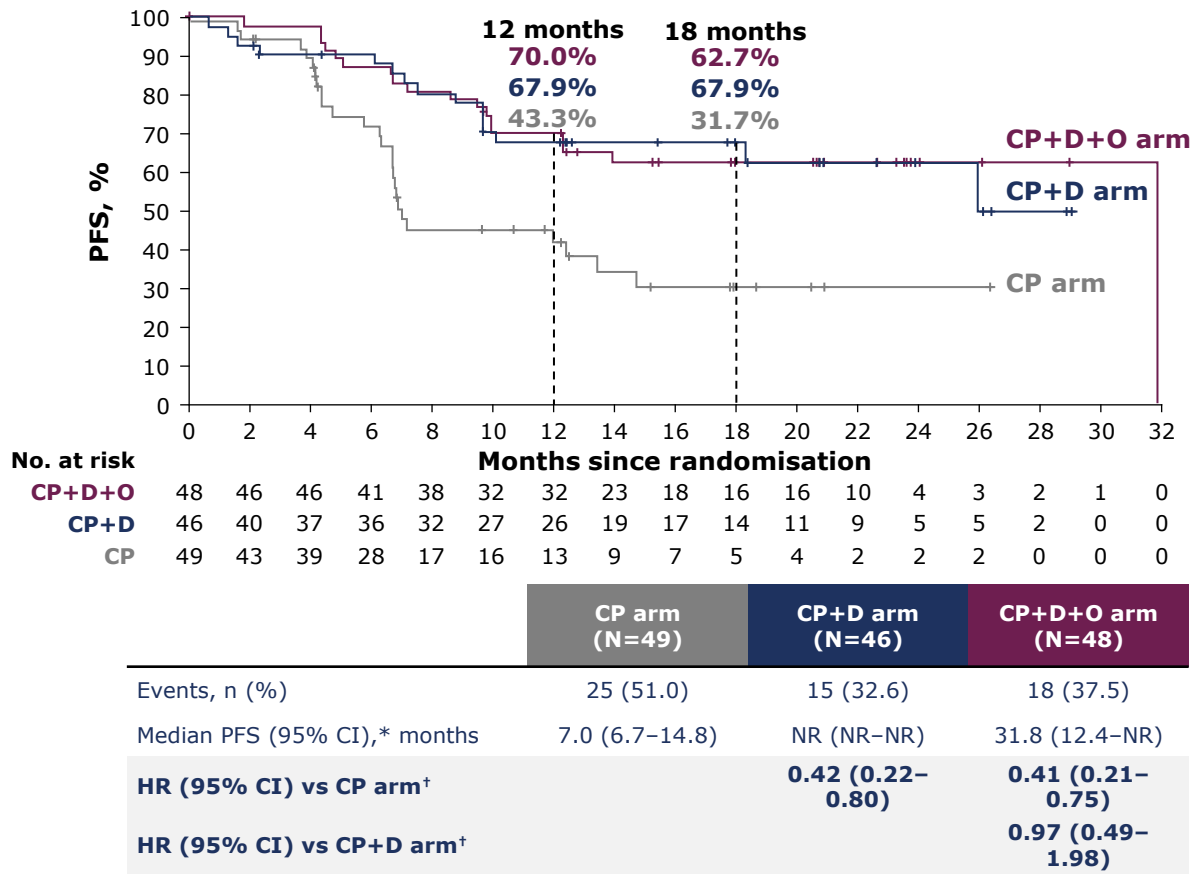
Overall data maturity 61.0%



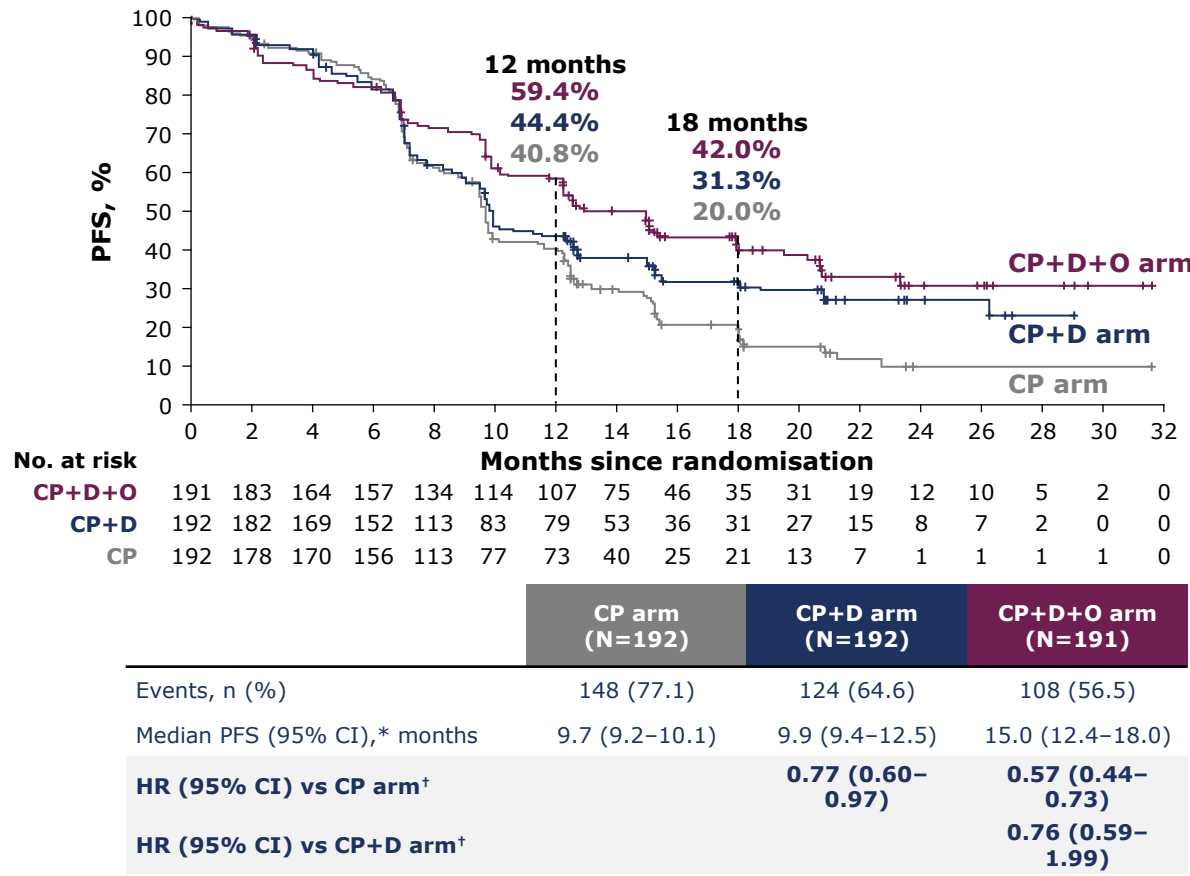
The median (range) duration of follow-up for PFS was 12.6 (0.0–31.6), 15.4 (0.0–29.1), and 15.4 (0.0–31.7) months in censored patients for the CP, CP+D, and CP+D+O arms, respectively. PFS rates were estimated by the KM method. *CI for median PFS is derived based on the Brookmeyer–Crowley method;
[†]The primary PFS analysis for each comparison was performed separately. The HR and CI were estimated from a Cox proportional hazards model stratified by MMR and disease status. The CI was calculated using a profile likelihood approach. The P value was calculated using a log-rank test stratified by MMR and disease status. ITT, intent-to-treat; KM, Kaplan–Meier.
Figure borrowed with permission from Westin SN *et al. J Clin Oncol* 2024;42:283–99 ©American Society of Clinical Oncology.

Subgroup analysis of PFS by MMR status

dMMR (20% of population)



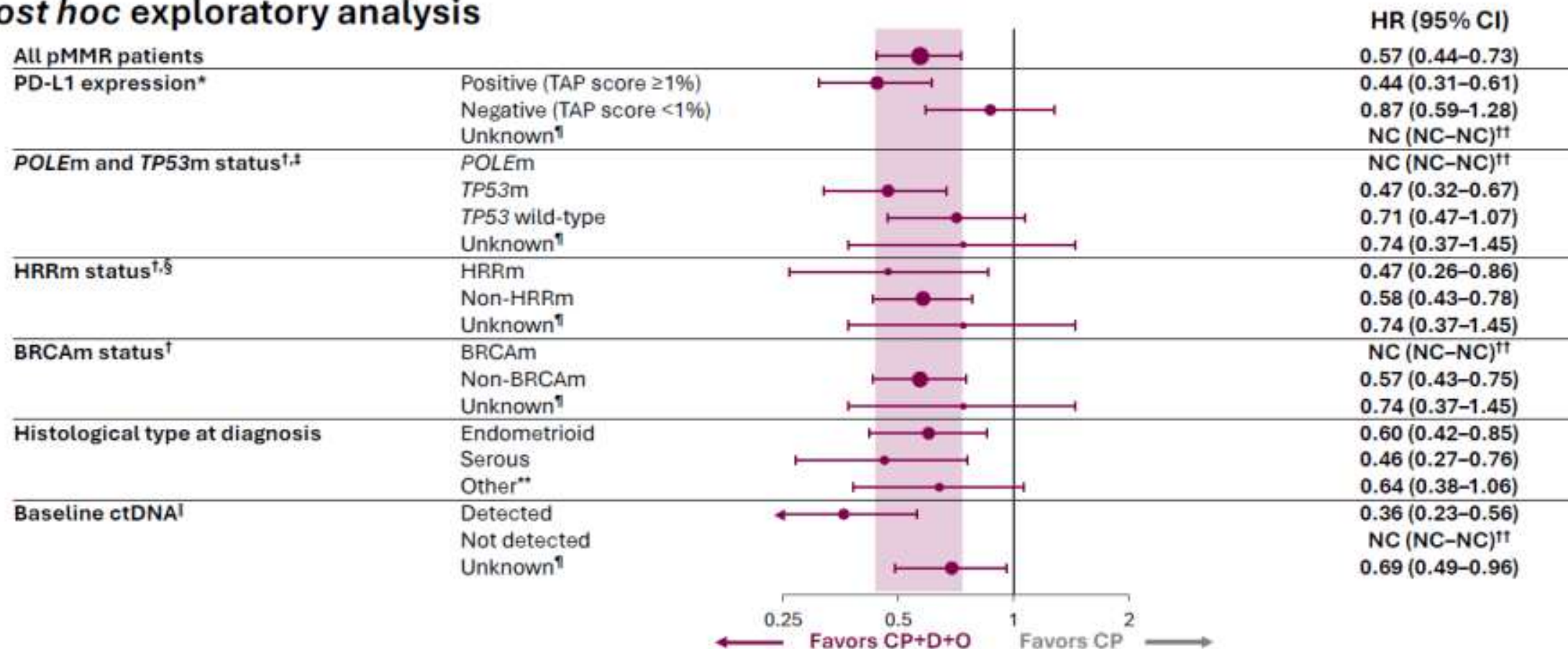
pMMR (80% of population)



pMMR subpopulation: PFS by biomarker subgroup

CP + durvalumab + olaparib vs CP

Post hoc exploratory analysis



DDO: April 12, 2023. *PD-L1 expression was evaluated using the VENTANA PD-L1 (SP263) assay. PD-L1 positive defined as TAP ≥1%; PD-L1 negative defined as TAP <1%. [†]Status determined retrospectively in two ways: from tissue samples (FoundationOne[™]CDx assay; Foundation Medicine, Inc.), and by molecular profiling of ctDNA (FoundationOne[™]Liquid CDx; Foundation Medicine, Inc.) from blood samples; [‡]TP53m status defined as a sample with a deleterious or suspected deleterious mutation in TP53 excluding samples with a deleterious or suspected deleterious mutation in POLE; TP53 wild-type status defined as a sample with no deleterious or suspected deleterious mutation in TP53 excluding samples with a deleterious or suspected deleterious mutation in POLE; [§]Positive HRRm status defined as a sample with a deleterious or suspected deleterious mutation in any of the following prespecified genes: ATM, BRCA1, BRCA2, BARD1, BRIP1, CDK12, CHEK1, CHEK2, FANCL, PALB2, RAD51B, RAD51C, RAD51D, and RAD54L; negative HRRm status (non-HRRm) defined as a sample with no deleterious or suspected deleterious mutations in any of the prespecified genes; [‡]ctDNA was analyzed using the methylation-based Guardant Infinity[™] assay (Guardant Health, Palo Alto, CA); [†]Unknown[†] status included patients recruited in China (where molecular testing was not performed) and/or patients who withdrew consent and/or those without available samples; ^{**}Other^{**} includes carcinosarcoma, mixed epithelial, clear cell, undifferentiated, mucinous, and other; ^{††}Not calculated due to low event numbers. NC, not calculable.

Moore et al, SGO 2025

SYSTEMIC THERAPY

FIRST LINE SYSTEMIC THERAPY

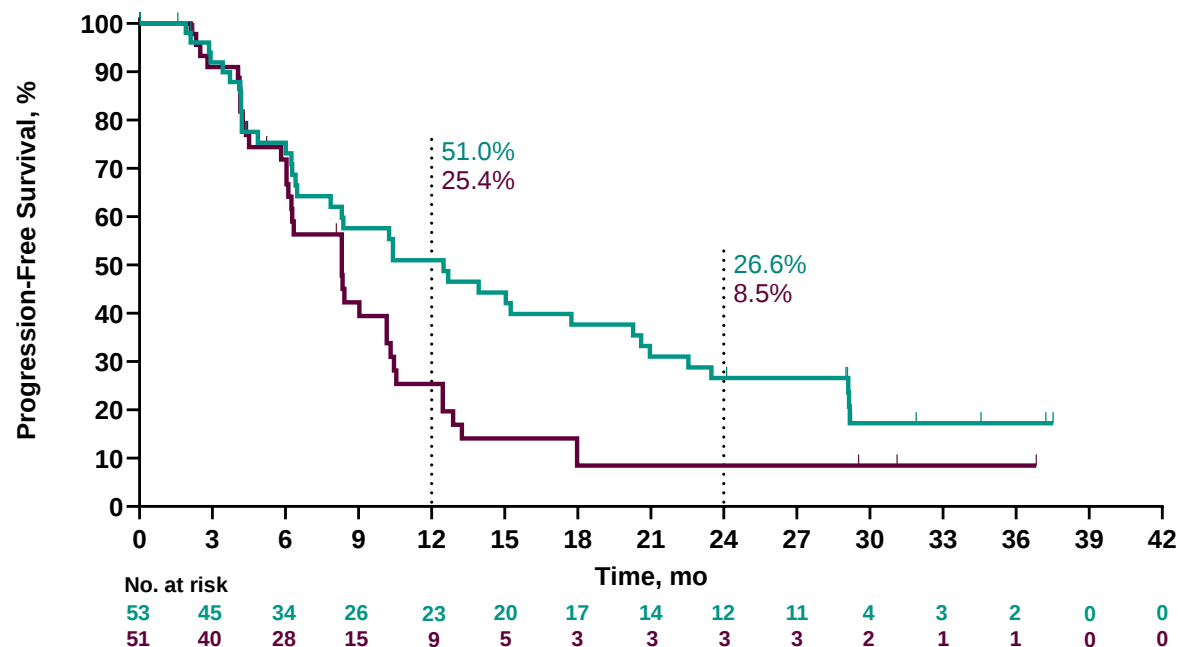
in unresectable stage III/IV or recurrent EC with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)

- If chemotherapy is contraindicated, in patients with non-MMRd relapsed disease and with prior chemotherapy in the adjuvant/neoadjuvant setting, a combination of pembrolizumab and the multi-tyrosine-kinase inhibitor lenvatinib may be considered [III, C].

ENGOT-en9/LEAP-001 Progression-Free Survival^a Improved With LEN/PEMBRO vs TC in Prior Neoadjuvant/Adjuvant Chemotherapy Subgroup

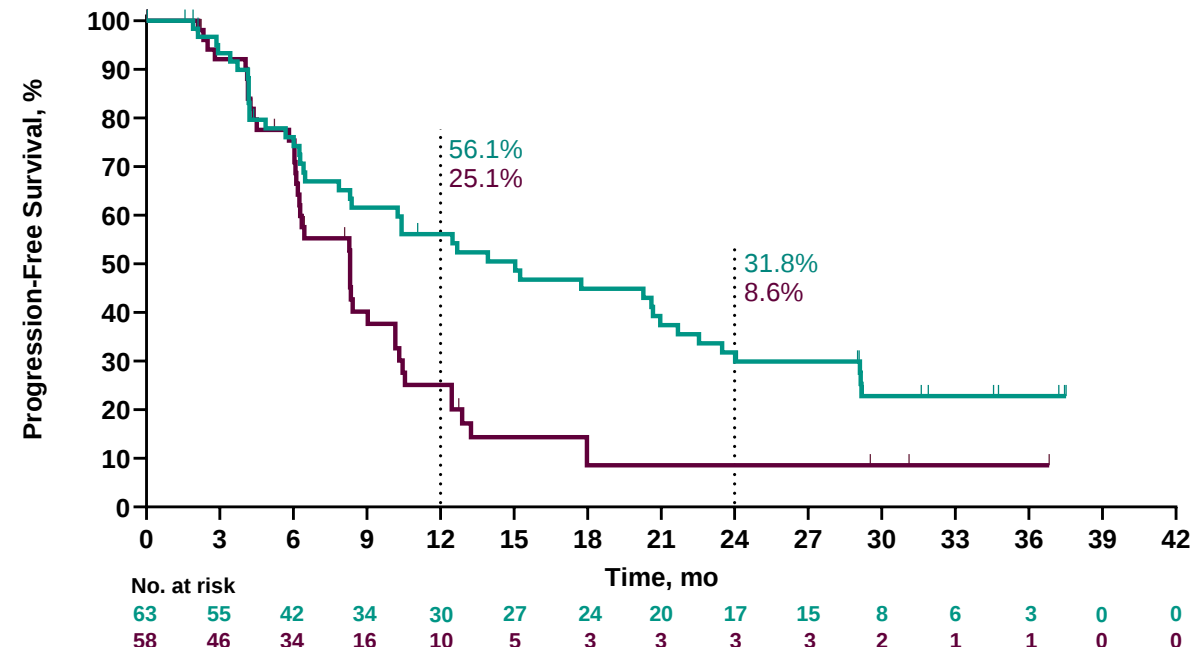
pMMR Population

	Events, n/N	Median (95% CI), mo	HR (95% CI)
LEN/PEMBRO	37/53	12.5 (6.5–20.3)	0.60 (0.37–0.97)
TC	35/51	8.3 (6.1–10.2)	



All-comers

	Events, n/N	Median (95% CI), mo	HR (95% CI)
LEN/PEMBRO	42/63	15.0 (8.3–21.0)	0.52 (0.33–0.82)
TC	39/58	8.3 (6.2–10.2)	



Christian Marth et al. J Clin Oncol 2025 Mar 20;43(9):1083-1100

SYSTEMIC THERAPY

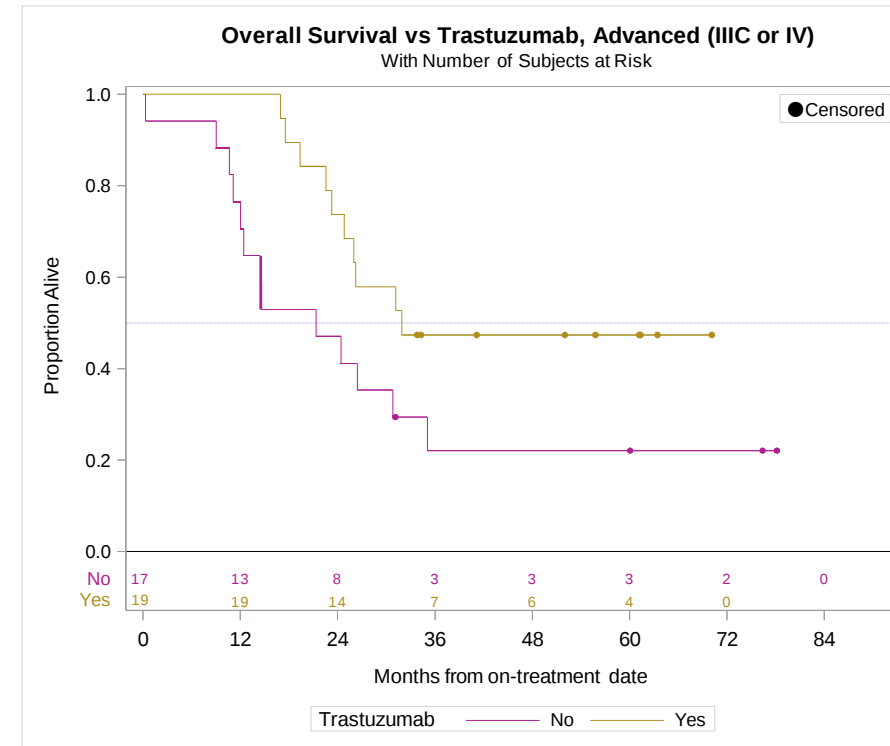
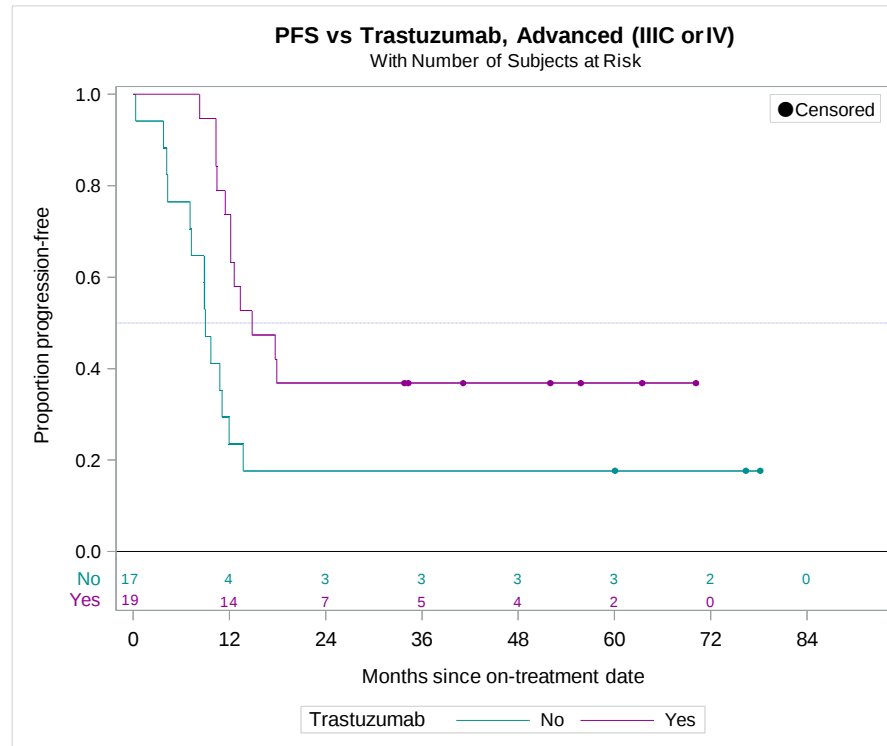
FIRST LINE SYSTEMIC THERAPY

in unresectable stage III/IV or recurrent EC with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)

- If ICI ($\pm$ PARPi) is contraindicated, for patients with a HER2 3+ tumour, a combination of carboplatin-paclitaxel plus trastuzumab may be considered [II, B].
- The standard chemotherapy regimen is 6 cycles of carboplatin-paclitaxel [I, A].

Carboplatin/paclitaxel+/-Trastuzumab (NCT01367002)

Updated Survival analysis stage III/IV



In a subset analysis of pts restricted to stage IIIC/IV disease, the addition of trastuzumab (n=17) continued to provide both (*left*) PFS benefit over control (n=19) and OS benefit over control (21.1 versus 31.9 months, HR 0.440 90% CI 0.219-0.882 **p=0.0230**).

Amanda N. Fader et al., J Clin Oncol. 2018 Jul 10;36(20):2044-2051

Amanda N. Fader et al., JCO 2020

First line treatment endometrial cancer

The MMR status should be taken into consideration to determine the choice of first line therapy:

- MMRd: ***should be offered*** chemotherapy + ICI (dostarlimab or durvalumab or pembrolizumab) followed by ICI as maintenance therapy
- Non-MMRd tumours with rapidly growing/symptomatic disease: ***can be considered*** chemotherapy +/-ICI followed by ICI as maintenance therapy, e.g. dostarlimab or pembrolizumab or durvalumab. All patients can be considered since there are no predictive biomarkers to select a particular group of patients.
- NON-MMRd: ***can be considered*** Chemotherapy +ICI followed by a combination of ICI and PARPi as maintenance therapy, ie durvalumab and Olaparib.
- In patients with prior chemotherapy in the adjuvant or neoadjuvant setting, a combination of lenvatinib and pembrolizumab ***may be considered***
- If ICI ($\pm$ PARPi) is contraindicated, for patients with a HER2 3+ tumour, a combination of carboplatin-paclitaxel plus trastuzumab ***may be considered***
- In low-grade ER-positive, low volume/asymptomatic advanced or slowly growing recurrent tumours, endocrine therapy is the preferred systemic therapy

Endometrial Cancer





GRAZIE

